DRAFT

NAVY TRAINING SYSTEM PLAN

FOR THE

Tactical Automated Mission Planning System (TAMPS)

N88-NTSP-A-50-9301C/D

NOVEMBER 1998

EXECUTIVE SUMMARY

This Tactical Automated Mission Planning System (TAMPS) Navy Training System Plan (NTSP) addresses the continued fleet introduction of TAMPS hardware, the incorporation of the current TAMPS software release 6.1 and 6.1.1, and the forthcoming software release 6.2. Additionally, this NTSP is an update to the previous TAMPS Navy Training Plan (NTP) and has been reformatted, in accordance with the latest guidance provided by the Chief of Naval Operations (CNO).

TAMPS provides the Navy and Marine Corps with an automated method of mission planning and optimizing routes for strike warfare. TAMPS provides mission planners with a computer-based system capable of rapidly processing large quantities of digitized terrain, threat data, and environmental data, as well as, aircraft and weapon system parameters. In addition, TAMPS also provides digital download capabilities (i.e., JTIDS, GPS, EMDU, F/A-18 MU, etc.).

The TAMPS system includes software and a tactical computing system. TAMPS software 6.1 is hosted on the Desktop Tactical Computer-II (DTC-II) or the portable work station All Computing Environments/Versa Modular Europa (ACE/VME). Software release 6.1.1 is a rehost of software release 6.1 for the SUN ULTRA 2. Previously delivered software will be updated with version 6.1 software. The TAMPS software version 6.1 became available during the first quarter of FY98 and 6.1.1 became available in February 1998.

A properly maintained TAMPS system (hardware and software) will greatly enhance the ability of associated aircrews to rapidly plan missions and evaluate potential threats with greater accuracy. This will increase mission effectiveness, and at the same time, increase aircraft survivability.

Instructor requirements at the Fleet Replacement Squadrons (FRSs), the weapon schools, the Sea-Based Weapons and Advanced Tactics School, Pacific (SWATSCOLPAC), and the Navy and Marine Corps Intelligence Training Center (NMITC) remain consistent with existing billet structure. Fleet and fleet support billet requirements will also remain consistent with the existing billet structure with the exception of an additional Radioman (RM) per Aircraft Carrier (CV/CVN) and an additional junior officer per Carrier Air Group (CAG).

Since the approval of the preceding NTSP, various refinements have been made in the TAMPS community. The following is a brief description of changes that have occurred:

- The introduction schedule has been modified to meet current TAMPS deliveries.

- Technical Training Equipment delivery schedules and Ready For Training (RFT) dates have been updated to reflect current planning.

- The TAMPS SUN ULTRA II information has been incorporated.

- The Navy - Portable Flight Planning Software (N-PFPS) information has been incorporated.

- The Tactical Strike Coordination Manager (TSCM) information has been incorporated.

This NTSP contains Navy and Marine Corps Active Duty (ACDU), Navy Selected Reserves (SELRES), and Selected Marine Corps Reserve (SMCR) Manpower, Personnel and Training requirements regarding the TAMPS. As future modifications are made to the TAMPS program, they will be included in this NTSP via the annual review/revision process.

TACTICAL AUTOMATED MISSION PLANNING SYSTEM

(TAMPS)

NAVY TRAINING SYSTEM PLAN

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LIST OF ACRONYMS

ACDU/AD	- Active Duty
ACE/VME	- All Computing Environments/Versa Modular Europa
ACO	- Airspace Control Order
AD	- Aircraft Division
ALTIS	- Aviation Logistics Tactical Information Systems
AOB	- Average On-Board
ARC	- Arc-second Raster Chart
ATIR	- Annual Training Input Requirements
ATM	- Asynchronous Transfer Mode
ATO	- Air Tasking Order
CAG	- Carrier Air Group
CBT	- Computer Based Training
CDBA	- Common Data Base Access
CD-ROM	- Compact Disk Read Only Memory
CFE	- Contractor Furnished Equipment
CHNAVPERS	- Chief of Naval Personnel
CIB	- Controlled Image Base
CIN	- Course Identification Number
CINCLANTFLT	- Commander-in-Chief, U.S. Atlantic Fleet
CINCPACFLT	- Commander-in-Chief, U.S. Pacific Fleet
CJTF	- Commander Joint Task Force
CMC	- Commandant of the Marine Corps
CNET	- Chief of Naval Education and Training
CNO	- Chief of Naval Operations
COMNAVAIRSYSCOM	- Commander, Naval Air Systems Command
COMNAVPERSCOM	- Commander, Naval Personnel Command
COMOPTEVFOR	- Commander, Operational Test and Evaluation Force
COMTRALANT	- Commander, Training Command Atlantic Fleet
COTS	- Commercial Off-The-Shelf
CPU	- Central Processing Unit
CV	- Aircraft Carrier
CVIC	- Aircraft Carrier Intelligence Center
CVN	- Aircraft Carrier, Nuclear Powered

LIST OF ACRONYMS
(Continued)

DA	- Developing Activity
DAFIF	- Digital Aeronautical Flight Information Files
DBA	- Data Base Administration/Administrator
DIA	- Defense Intelligence Agency
DPM	- Data Preparation and Maintenance
DS	- Data Systems Technician
DSU	- Data Storage Unit
DT	- Development Test
DTC	- Desktop Tactical Computer
DTED	- Digital Terrain Elevation Data
ECWS	- Electronic Combat Weapons School
EMDU	- Enhanced Main Display Unit
ER	- Extended Response
FAMP	- Forward Area Minefield Planning
FIT	- Fleet Introduction Team
FRS	- Fleet Replacement Squadron
FY	- Fiscal Year
GB	- Gigabyte
GCCS - M	- Global Command and Control System - Maritime
GFE	- Government Furnished Equipment
GOTS	- Government Off-The-Shelf
GPETE	- General Purpose Electronic Test Equipment
GPTE	- General Purpose Test Equipment
GPS	- Global Positioning System
HARM	- High Speed Anti-Radiation Missile

LIST OF ACRONYMS
(Continued)

IDB	- Integrated Data Base
ILSP	- Integrated Logistics Support Plan
IPC	- Inter-Process Communications
IS	- Intelligence Specialist
IV&V	- Independent Verification and Validation
JDAM	- Joint Direct Attack Munition
JMPS	- Joint Mission Planning System
JSOW	- Joint Stand Off Weapon
JTIDS	- Joint Tactical Information Distribution System
JTF	- Joint Task Force
MAG	- Marine Aircraft Group
MAW	- Marine Aircraft Wing
MAWTS-1	- Marine Aviation Weapons and Tactics Squadron One
MB	- Megabyte
MCCDC	- Marine Corps Combat Development Center
MDL	- Mission Data Loader
MFCDU	- Multi Function Control and Display Unit
MHz	- Mega Hertz
MIDB	- Modernized Integrated Database
MINEWARTRACEN	- Mine Warfare Training Center
MOS	- Military Occupational Specialty
M&P	- Manpower and Personnel
MPE	- Mission Planning Executive
MPF	- Mission Planning Function
MPLAN	- Mission Planning Local Area Network
MPM	- Mission Planning Module
MU	- Memory Unit

LIST OF ACRONYMS
(Continued)

NAS	- Naval Air Station
NATOPS	- Naval Air Training and Operating Procedures Standardization
NAVAIRLANT	- Naval Air Force Atlantic Fleet
NAVAIRPAC	- Naval Air Force Pacific Fleet
NAVAIRSYSCOM	- Naval Air Systems Command
NAWC	- Naval Air Warfare Center
NEC	- Navy Enlisted Classification
NFO	- Naval Flight Officer
NIMA	- National Imagery and Mapping Agency
NIOBC	- Naval Intelligence Officer Basic Course
NMITC	- Navy and Marine Corps Intelligence Training Center
NOBC	- Navy Officer Billet Classification
N-PFPS	- Navy - Portable Flight Planning Software
NSAWC	- Naval Strike and Air Warfare Center
NTP	- Navy Training Plan
NTSP	- Navy Training System Plan
OFP	- Operational Flight Program
OPO	- OPNAV Principal Official
OT	- Operational Test
PC	- Personal Computer
PEO	- Program Executive Office
PMA	- Program Manager, Air
PMOS	- Primary Military Occupational Specialty
PNEC	- Primary Navy Enlisted Classification
RAM	- Random Access Memory
RDD	- Required Delivery Date
RFT	- Ready For Training
RM	- Radioman

LIST OF ACRONYMS
(Continued)

SA	- System Administrator
SEACONWPNSLANT	- Sea Control Weapons School, Atlantic
SELRES	- Selected Reserve
SF	- System Functions
SFWSLANT	- Strike Fighter Weapons School, Atlantic
SFWSPAC	- Strike Fighter Weapons School, Pacific
SLAM	- Stand-off Land Attack Missile
SLATS	- Strike Lead Air Training Syllabus
SMCR	- Selected Marine Corps Reserve
SMOS	- Secondary Military Occupational Specialty
SNEC	- Secondary Navy Enlisted Classification
SPAWAR	- Space and Naval Warfare System Center
SPETE	- Special Purpose Electronic Test Equipment
SPTE	- Special Purpose Test Equipment
SRA	- Shop Replaceable Assembly
SSA	- Software Support Activity
SWATSCOLPAC	- Sea-Based Weapons and Advanced Tactics School, Pacific
SWATSLANT	- Strike Weapons and Tactics School, Atlantic
TAC	- Tactical Advanced Computer
TACAIR	- Tactical Aircraft
TACMAN	- Tactical Manual
TACTRAGRU	- Tactical Training Group
TAMMAC	- Tactical Aircraft Moving Map Capability
TAMPS	- Tactical Automated Mission Planning System
TBD	- To Be Determined
TEAMS	- Tactical EA-6B Mission Support
TID	- Tactical Information Device
TSA	- Training Support Agency
TSCM	- Tactical Strike Coordination Manager
TTC	- Tactical Tape Cartridge
TTE	- Technical Training Equipment

LIST OF ACRONYMS
(Continued)

UAV	- Unmanned Aerial Vehicles
ULSS	- User Logistic Support Summary
UPS	- Uninterruptable Power Supply
USMC	- United States Marine Corps
USMTF	- United States Message Text Format
USN	- United States Navy
WD	- Weapons Division
WRA	- Weapon Replaceable Assembly

TACTICAL AUTOMATED MISSION PLANNING SYSTEM

(TAMPS)

PART I - TECHNICAL PROGRAM DATA

NTSP A-50-9301C/D
November 1998

I.A. TITLE - NOMENCLATURE - PROGRAM

1. Tactical Automated Mission Planning System (TAMPS), AN/UYQ-81(V)

2. Program Element Number: 0204571N

I.B. SECURITY CLASSIFICATION

1. Selected System Capabilities: SECRET

2. Hardware: UNCLASSIFIED

3. System Description: UNCLASSIFIED

4. Navy Training System Plan: UNCLASSIFIED

I.C. NTSP PRINCIPALS

1. OPNAV Principal Official (OPO) Program Sponsor:	CNO (N6/N62H)
2. OPO Resource Sponsor:	CNO (N6/N62H)
3. Marine Corps Program Sponsor:	CMC (APW)
4. Developing Activity (DA):	Program Executive Office for Tactical Aircraft Programs (PEO(T))/PMA233
5. Training Agency (TA):	CNET/CINCLANTFLT/ CINCPACFLT/MCCDC

6. Training Support Agency (TSA): COMNAVAIRSYSCOM (PMA205)

7. Manpower and Personnel (M&P) Mission Sponsor: CNO (N1, N7), COMNAVPERSCOM/CMC (ASM)

8. Chief of Naval Personnel (CHNAVPERS): COMNAVPERSCOM

9. Commandant of the Marine Corps (CMC) Manpower Management: CMC (MMOA-2, MMEA-84)

I.D. SYSTEM DESCRIPTION

1. Operational Uses. The Tactical Automated Mission Planning System (TAMPS) currently provides the Navy and Marine Corps with an automated method of mission planning and optimizing routes for strike warfare. TAMPS provides mission planners with a computer-based system capable of rapidly processing large quantities of digitized terrain, threat and environmental data, aircraft and weapon system parameters, and imagery. TAMPS is a proven tactical mission planning system that has demonstrated the ability to effectively integrate intelligence data for Navy and Marine Corps fixed-wing and rotary-wing aircraft, stand-off weapons, avionics systems, mission support systems, and unmanned aerial vehicles. Strike planners meet mission objectives by using TAMPS' extensive databases to generate applicable mission planning products (e.g., strip charts, radar predictions, flight plans, and data transfer to Data Storage Units (DSUs), Memory Units (MUs), Mission Data Loaders (MDLs), and Tactical Tape Cartridges (TTCs)). These TAMPS products greatly increase the probability of mission success while providing the capability to greatly decrease mission planning and weapon system preflight preparation time.

I.E. DEVELOPMENTAL TEST (DT) AND OPERATIONAL TEST (OT). The TAMPS program is based upon an evolutionary acquisition strategy. This allows the TAMPS to be fielded while enhancements are developed in a series of software releases and hardware updates. TAMPS DTs and OTs are structured to ensure that new software and hardware updates incorporate requirements generated from fleet use of previous software releases and hardware configurations.

1. The TAMPS 6.1 software completed testing during the third quarter of FY97.

2. The TAMPS 6.1.1 software completed testing during the first quarter of FY98.

3. The Navy - Portable Flight Planning Software (N-PFPS) completed testing during the first quarter of FY98.

4. The TAMPS 6.2 software is planned to complete testing during the fourth quarter of FY98.

5. The TAMPS 7.0/Joint Mission Planning System (JMPS) developmental software is planned to complete testing during the fourth quarter of FY00.

I.F. EQUIPMENT/SYSTEM/SUBSYSTEM REPLACED. The TAMPS strategic goals are to continually provide the fleet strike planners with a user-friendly, automated mission planning system that processes mission critical information quickly, accurately, and reliably.

1. For most activities receiving TAMPS systems for the first time, TAMPS will augment the manual method of presenting threat data to the mission planners and automate mission route planning and chart development.

2. For most activities currently utilizing a TAMPS system, the older version will be replaced by updated hardware and software. This transition provides the fleet a faster system with expanded memory, improved graphics, and media transfer and printing capabilities that are essential to ensuring operational readiness and usability. To those ends the TAMPS software release 6.1 is hosted on the All Computing Environments/Versa Modular Europa (ACE/VME) and software release 6.1.1, a rehost of software release 6.1, is hosted on the SUN ULTRA 2. In the future the TAMPS hardware will migrate from UNIX based systems to a Personal Computer (PC) based system with the introduction of the autonomous N-PFPS to be followed by TAMPS software release 7.0/JMPS hosted on Navy standard PC computers.

I.G. DESCRIPTION OF NEW DEVELOPMENT

1. Functional Description. TAMPS is a stand-alone, software driven computer system currently capable of providing the mission planner with strip charts, radar predictions and reports. Mission routes will be defined by specifying turn points and flight conditions. The outputs from TAMPS can be electronically transferred to aircraft platforms utilizing DSUs, MUs, MDLs, or TTCs as applicable.

a. Software. The software is designed with a modular architecture to support mission planning requirements of the various weapon systems supported by TAMPS. A set of core modules satisfies common requirements and permits the integration of independently developed Mission Planning Modules (MPMs) and Mission Planning Functions (MPFs). This architecture greatly increases the speed and flexibility of TAMPS and allows for the ease of adding and updating specific modules without disturbing the entire suite of TAMPS software or changing the core.

(1) Core Module. The core module is composed of five separate modules. A majority of the functions performed by these modules are transparent to the operator, but they are essential functions that allow total system integration. The core module is required in order to accomplish mission planning and provide accessibility to update all threat data, geographic information, and other data files. The core module also allows the operator to execute mission packages, where relative strike mission planning data is distributed to all applicable MPMs. Listed below are the five modules comprising the core module.

(a) Common Database Access (CDBA) Module

(b) Inter-Process Communications (IPC) Module

(c) Mission Planning Executive (MPE) Module

(d) Data Preparation and Maintenance (DPM) Module

(e) System Functions (SF) Module

(2) MPMs/MPFs. MPMs/MPFs allow the operator/mission planner to utilize the specifications for the type aircraft and/or weapon to be used in order to effectively execute the selected mission. MPMs/MPFs are modularized in order to allow independent development and, as required, allow MPM/MPF modification without disturbing other software elements within the TAMPS. Below are the current MPM/MPF modules and their associated unique functions.

(a) Aircraft Mission Planning Module. The aircraft MPM software and associated Database Administration (DBA) software contain aircraft configurations and parameters as defined in the Naval Air Training and Operating Procedures Standardization (NATOPS) and Tactical Manuals (TACMANs), Naval Strike and Air Warfare Center (NSAWC) fuel look-up tables and other applicable sources for each aircraft. The following aircraft are currently available in this MPM.

- HH-60H
- CH-53D
- KC-130F/R/T
- UH-1
- AH-1W
- CH-53E
- P-3C
- C-2
- AV-8B
- EA-6B
- S-3B
- CH-46E
- F-14A/B/D
- SH-60B/F

(b) F/A-18 MPM. The F/A-18 MPM and DBA software contain the current F/A-18 aircraft configurations and polynomials. In addition, this MPM allows the TAMPS to down-load mission planning data to the aircraft's MU. This MPM will receive updates as required to reflect Operational Flight Program (OFP) changes for the F/A-18 aircraft.

(c) E-2C MPM. The E-2C MPM contains the current E-2C aircraft polynomials. Additionally, it is used to modify Joint Tactical Information Distribution System (JTIDS) parameters on operational networks and provide Enhanced Main Display Unit (EMDU), Multi Function Control and Display Unit (MFCDU), map and geodesic files creation capability.

(d) High Speed Anti-Radiation Missile (HARM) MPM. The HARM MPM contains the current parameters and capabilities of the HARM.

(e) Forward Area Minefield Planning (FAMP) MPM. The FAMP MPM allows for planning of effective mine disbursement.

(f) Stand-off Land Attack Missile (SLAM) MPM. The SLAM MPM allows planning for missile version 2.42 only.

(g) Global Positioning System (GPS) MPF. Software release 6.1 contains improved GPS planning.

(h) JTIDS MPF. The JTIDS MPF will allow the E-2C and F-14D MPMs to initialize the data needs associated with a mission.

(i) The following aircraft/systems are candidates for incorporation of independent MPMs/MPFs into the TAMPS.

- E-6A	- T-45	- AV-8B (MOMS)	- JSOW
- MH-53E	- EP-3	- SH-60	- TEAMS
- P-3	- AH-1 (Mid-Life)	- V-22	- MIDS

b. Hardware. There are currently three hardware configurations (Desktop Tactical Computer (DTC-II), SUN ULTRA 2, and ACE/VME) hosting the TAMPS software. This is due to the evolutionary acquisition process which takes advantage of gains in software and hardware capabilities. Naval Air Systems Command (NAVAIRSYSCOM) (PMA-233) will coordinate the TAMPS hardware quantity and the delivery schedule with the appropriate TAMPS asset managers (Naval Air Force Atlantic Fleet (NAVAIRLANT), Naval Air Force Pacific Fleet (NAVAIRPAC), and CMC (APW)).

(1) DTC-II. The TAMPS software is hosted on the DTC-II which is comprised of Commercial Off-The-Shelf (COTS), non-developmental hardware. The following is a list of the main hardware components of a fleet configured TAMPS DTC-II.

DTC-II HARDWARE COMPONENTS

1 Sun 4/600 w/90 MHZ HyperSPARC CPU w/128 MB RAM
1 Sun GX 8-bit Color Graphics Daughterboard
1 Megatek Dual Frame Buffer Graphics Board
1 8 Port Mux Card
2 Serial Ports
1 Ethernet Port
2 SCSI Ports
1 1553 (VME) Controller
4 4.8 GB Removable Disk Drives
1 1.2 MB 5 1/4" Disk Drive (UNIX/DOS)
1 1.44 MB 3 1/2" Disk Drive (UNIX/DOS)
1 150 MB 1/4" Tape Drive
1 5 GB 8mm Tape Drive
1 CD-ROM Drive
* 19" High Resolution Color Monitors
* Keyboards
* Rugged Trackballs
1 Laser Printer
1 Color Ink Jet Printer/Copier
1 Data Storage Unit Receptacle, and/or MDL,
and/or Tactical Information Device (TID) (as required by site)

* The quantity of monitors, keyboards, and trackballs will be dependent upon the number required by the recipient unit.

This represents a single DTC-II system. Afloat systems on Aircraft Carriers (CV/CVNs) have two DTC-IIs in a client/server environment.

(2) ACE/VME. The TAMPS 6.1 software runs on the portable ACE/VME. These portable systems are for squadrons to use at homebase or on detachment afloat or ashore. The following is a list of the main hardware components of a TAMPS ACE/VME.

ACE/VME HARDWARE COMPONENTS

1 ACE/VME w/90 MHZ HyperSPARC CPU w/64 MB RAM
1 24 BIT Graphics Control Board
2 Serial Ports
1 Ethernet Port
1 SCSI Port
2 4.8 GB Disk Drives
1 1.44 MB 3 1/2" Disk Drive (UNIX/DOS)
1 8mm Tape Drive
1 CD-ROM Drive
1 17" High Resolution Color Monitor
1 Keyboard with Integrated Trackball
1 Color Ink Jet Printer
1 Data Storage Unit Receptacle, and/or MDL, and/or TID (as required by site).

(3) SUN ULTRA 2. The TAMPS 6.1.1 and 6.2 software is hosted on the SUN ULTRA 2 which is comprised of COTS, non-developmental hardware. The following is a list of the main hardware components of a fleet configured TAMPS SUN ULTRA 2.

SUN ULTRA 2 HARDWARE COMPONENTS

1 Sun Ultra 2 1200/1300 w/ 300MHz Ultra SPARC CPU w/256 MB RAM
1 9 GB Hard Drive
1 18 GB Hard Drive
1 ATM Network Card
1 1.44 MB 3 1/2" Disk Drive
1 CD-ROM Drive
1 8mm Exabyte Tape Drive
1 20" High Resolution Color Monitor
1 Keyboard
1 ITAC Trackball
1 Xerox C55MP Printer
1 DSU Receptacle, and/or MDL, and/or TID (as required by site)
1 Uninterruptable Power Supply

2. Physical Description. A typical fleet DTC-II configuration may contain up to three work stations and a peripheral rack. A typical fleet SUN ULTRA 2 configuration will contain one work station and peripherals. A typical fleet ACE/VME configuration will contain one work station and peripherals. If a TAMPS activity receives multiple systems, only one peripheral rack

will be required. The peripheral rack will contain the DSU receptacles. Depending upon the recipient activity's location and deployability, the TAMPS systems may be in a desktop or rack mounted configuration.

a. Figure 1 is considered the standard TAMPS DTC-II configuration. All other TAMPS DTC-II hardware configurations are derivatives of this setup. Figure 2 is considered the standard TAMPS SUN ULTRA 2 configuration.

3. New Development Introduction. TAMPS hardware and software is based upon evolutionary upgrades to the previous version. This allows the program to take advantage of hardware and software advancements as well as fleet input to further enhance the TAMPS ability to assist the mission planner.

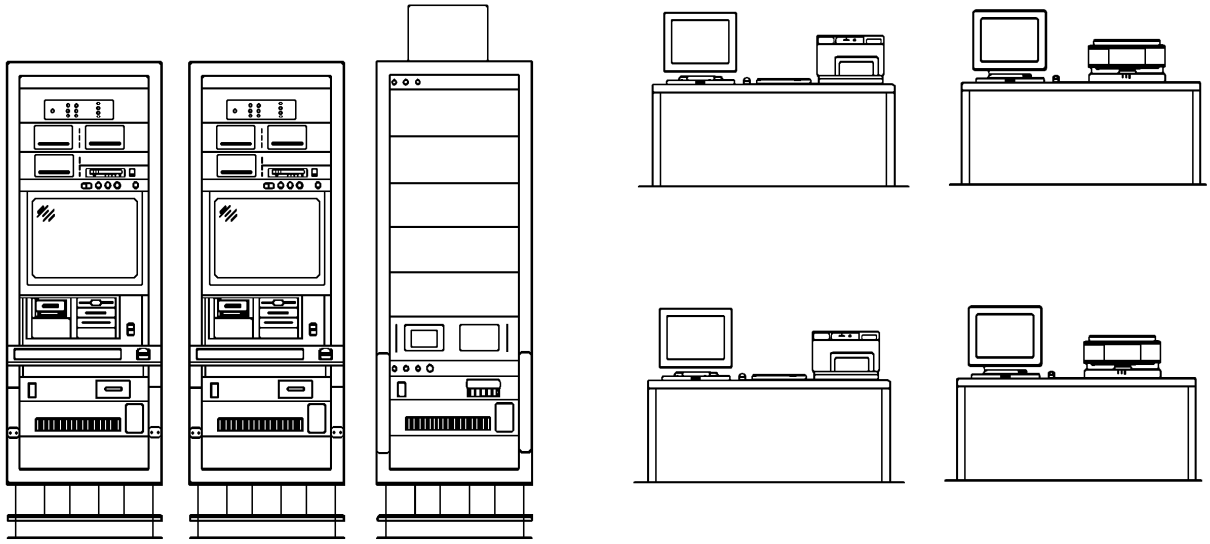
4. Significant Interfaces. In order for TAMPS to be able to provide reliable and useful data to the mission planner, the databases must be updated to keep abreast of constant global changes. This data is provided by existing resources and will not increase/decrease the interfacing systems manpower requirements. Below are the methods for maintaining the TAMPS databases.

a. Threat Databases. The initial source data is magnetic tape, produced by Atlantic Intelligence Command. For software release 6.1 it is from the Defense Intelligence Agency (DIA) Integrated Database (IDB) and for sortware release 6.2 it is from the DIA Modernized Intergrated Database (MIDB). It consists of friendly, neutral, and enemy order of battle.

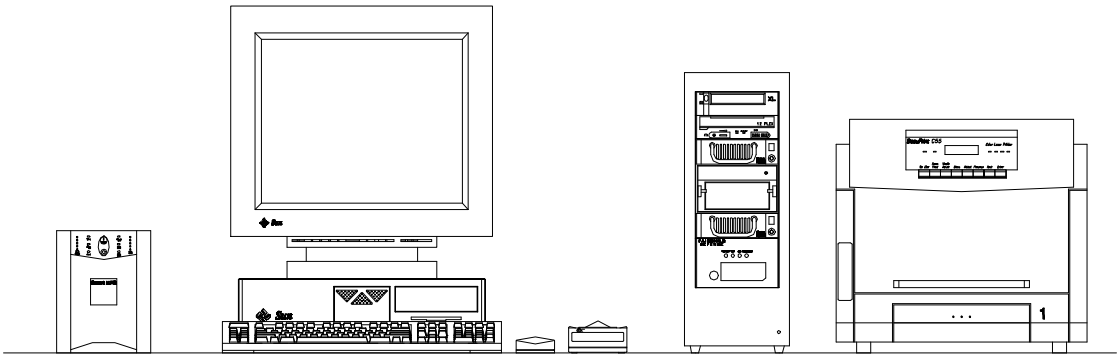
(1) Manual Updates. The System Administrator (SA)/DBA may utilize available resources to maintain the database by updating the threat files with the latest intelligence data, reconnaissance information or pilot reports.

(2) Electronic Updates. The SA/DBA may utilize the ETHERNET or Asynchronous Transfer Mode (ATM) interface from the Aircraft Carrier Intelligence Center (CVIC) to the Global Command and Control System - Maritime (GCCS-M) for retrieving updates to Order of Battle.

b. System Database. The TAMPS database will also consist of geo-political data. This data will be imported into the TAMPS from the National Imagery and Mapping Agency (NIMA) charts, Digital Terrain Elevation Data (DTED), Controlled Image Base (CIB) files and Digital Aeronautical Flight Information Files (DAFIF).



TAMPS DTC-II STANDARD AFLOAT CONFIGURATION
FIGURE 1



SYSTEM OVERVIEW

TAMPS SUN ULTRA 2 CONFIGURATION
FIGURE 2

c. There are additional interfaces under development that could potentially be utilized in loading and updating TAMPS data files.

(1) Tactical EA-6B Mission Support (TEAMS) System. TAMPS will possess the ability, in FY99, to interface with TEAMS. TEAMS handles mission activities of the EA-6B aircraft and its intelligence information. This interface can save SA/DBAs time in interactive updates to the threat database. Data review and SA/DBA initiated actions are required to apply the TEAMS updates to the TAMPS program. Mission planners will be able to transfer route data across this interface.

d. Tactical Strike Coordination Manager (TSCM). The TSCM is a distributed collaborative joint Force Level automated mission planning system that enables mission planners to develop integrated joint strike plans for Tactical Aircraft (TACAIR), support aircraft, Tomahawk, and Unmanned Aerial Vehicles (UAV), both ashore and afloat. TSCM provides mission planners with a computer based system, capable of rapidly processing large quantities of DTED, Arc-second Raster Chart (ARC) digitized raster graphics, threat and environmental data, intelligence, imagery and aircraft flight and performance data. TSCM interfaces with GCCS-M and TAMPS. This interface enables the complete integration of intelligence, imagery and tasking in the development of Force Level and Unit Level mission planning. Using TSCM the planner can easily and quickly build strike plans, construct and edit individual mission routes, transfer/receive individual missions to/from TAMPS, deconflict routes, adjust timelines, furnish projected attrition, and then provide a graphic playback of the strike plan for briefing the Battle Group Commander, Carrier Air Group (CAG) Commander, Strike Leads and strike groups.

TSCM also performs Air Tasking Order (ATO) analysis, validation and preview; Airspace Control Order (ACO) development, analysis and validation; and provides contingency missions development and analysis. TSCM accepts United States Message Text Format (USMTF) formatted ATO messages and automatically transforms these into easily read tabular formats for execution. TSCM can also build ATOs and ACOs quickly and easily from contingency missions developed on TSCM.

TSCM is being used at NSAWC and aboard CVs/CVNs to support strike planning. NSAWC provides strike planning training in preparation for Air Wing deployments to execute ATOs or contingency tasking. Top level mission descriptions and/or straight line missions from an ATO are quickly converted into concept missions using TSCM's autorouter and form the basis for the CAG laptop brief. Concept missions can easily be passed from TSCM to TAMPS. The TAMPS unit level planners will no longer be required to develop a mission one waypoint at a time. Instead the planner will select the concept mission passed from TSCM which in turn causes the complete mission to be displayed. Typically the unit level planner will need only to clear the target waypoint provided by TSCM and insert TAMPS target waypoint data, which contain weapon delivery tactics to complete the detailed route. Once the detailed routes are completed

on TAMPS, they can be returned to TSCM for final coordination and deconfliction. Processes which ordinarily take hours will be reduced to minutes through the use of TSCM/TAMPS interfaces.

e. Mission Rehearsal. Mission Rehearsal is the practice of planned tasks and functions critical to mission success using a true-to-life, interactive representation of the expected operating environment. Upon the fleet release of TAMPS software release 6.2, planner selected missions from TAMPS can be passed to TOPSCENE where mission rehearsal can occur using realistic scenes of imagery draped over DTED. Prior to execution, aircrews will receive detailed briefings based in part on the big picture from TSCM and in part on the detailed products developed by TAMPS (software release 6.2 and subsequent) which include mission data loads, kneeboard cards, strip charts, etc.

5. New Features, Configuration, or Material

a. TAMPS does not drive technology breakthroughs, but utilizes state-of-the-art, commercially available hardware in conjunction with a mix of COTS, Government Off-The-Shelf (GOTS), and TAMPS specific software to perform mission planning.

b. TAMPS software version 6.1 operates in a Windows-like environment and features an enhanced human-machine interface.

(1) TAMPS 6.1.1 software is a rehost of the TAMPS 6.1 software to the SUN ULTRA 2 hardware.

c. The TAMPS program is built upon the philosophy of adding enhanced capabilities through new software releases. Below is a summary of system upgrades planned to be incorporated into future TAMPS software releases.

(1) TAMPS Software Release 6.2. Software release 6.2 is projected to be introduced during the first quarter FY99 and will incorporate improved fuel accuracy and intelligence databases with automatic updates. Additionally, it will add imagery archiving and manipulation, mission rehearsal, electronic data folders, force level planning interface, and local and wide area network connection of GCCS-M, CVIC and Ready Rooms. The GCCS-M interface with the Enterprise 4000 server will provide real time order of battle and weather updates during aircraft carrier operations. TAMPS software release 6.2 will also provide planning for the AH-1, F/A-18 reconnaissance and SLAM Extended Response (ER).

(a) TAMPS Software Release 6.2K. Software release 6.2K will be a maintenance release for UNIX systems and will be introduced during the second quarter FY99. It will incorporate the year 2000 compliant software to ensure TAMPS functionality after midnight 31 December 1999.

(b) TAMPS Software Release 6.2.1. Software release 6.2.1 will be a maintenance release for UNIX systems and will be introduced during the first quarter of FY00. It will incorporate improved force level planning tools connection, Joint Direct Attack Munition (JDAM), Tactical Aircraft Moving Map Capability (TAMMAC), and GPS terminal procedures.

(2) TAMPS Interim N-PFPS. The N-PFPS software will be released during the second quarter of FY98. This will be PC compatible software that will be updated annually until TAMPS 7.0/JMPS software is available.

(3) TAMPS Software Release 7.0/JMPS. Fleet release of the TAMPS 7.0/JMPS software is projected to be during the fourth quarter of FY01. This software release will incorporate highly interactive modules and security enhancements and run in a Windows NT environment.

d. TSCM operates on a standard Navy Tactical Advanced Computer (TAC) -3, a SUN SPARC station or SUN ULTRA 2. TSCM does not drive technology breakthroughs, but utilizes state-of-the-art, commercially available hardware in conjunction with a mix of COTS, GOTS, and TSCM specific software to perform mission planning.

(1) TSCM software operates in a windows-like environment and features enhanced human-machine interfaces. TSCM employs operator friendly interfaces that reduces required manual entries with point and click mouse action. TSCM is compatible with current TAMPS software and as TAMPS upgrades are fielded, TSCM will incorporate upgrades to ensure compatibility. TSCM will be hosted on Windows NT (FY2000) and Computer Based Training (CBT) will be available via CD.

I.H. CONCEPTS

1. Operational Concept. TAMPS, with properly maintained databases, will greatly enhance the mission planning process by providing the operator with threat projections, calculating aircraft and weapons data (although the pubs must still be used to verify the output data) and providing flight data, strip charts and radar predictions upon mission route selection. TAMPS will also allow the mission planner to initiate route modifications to enhance the probability of mission success.

2. Maintenance Concept. The TAMPS maintenance concept has been designed to provide a high degree of operational readiness and to minimize support requirements at the organizational level. TAMPS hardware utilizes a two-level maintenance philosophy which encompasses organizational level and depot level support. Direction and guidance concerning the maintenance concept for the TAMPS hardware is provided in TAMPS User Logistic Support Summaries (ULSSs).

a. Organizational Level. Organizational level maintenance is performed at the operating unit. These maintenance actions encompass inspections, handling, troubleshooting, removal and replacement of Weapon Replaceable Assemblies (WRAs) and selected Shop Replaceable Assemblies (SRAs) and on equipment corrective maintenance.

(1) Preventive Maintenance. Periodic inspections and/or servicing of equipment will be accomplished as defined in the TAMPS system technical manual.

(2) Corrective Maintenance. Designated organizational level personnel will use hardware diagnostic programs and standard test equipment for fault isolation of WRAs and selected SRAs. Faulty items will be removed and replaced using standard hand tools. The faulty WRAs/SRAs will be forwarded to the depot level for repair.

b. Depot Level. Repair and disposition of retrograde assemblies beyond the capability of the organizational level is accomplished by the designated depot activity. The Space and Naval Warfare System Center San Diego Detachment, Philadelphia, PA, (SPAWAR San Diego Det Philadelphia) is currently the designated depot site for all TAMPS hardware.

c. Technical Assistance

(1) SPAWAR San Diego Det Philadelphia is the focal point for product support. This will consist of field level training in conjunction with initial system installation, and maintenance support.

(2) The Naval Air Warfare Center - Weapons Division (NAWC - WD), Pt. Mugu is the Software Support Activity (SSA), integrator, and configuration manager for TAMPS software. Naval Air Warfare Center - Aircraft Division (NAWC - AD), Patuxent River is responsible for software Independent Verification and Validation (IV&V).

3. Manning Concept.

a. TAMPS. The TAMPS manning concept is driven by the total system requirements for effective utilization and confidence in TAMPS. Functional operating requirements will be accomplished through the utilization of existing manpower augmented by

minimal additional billets. These positions include mission planners, SAs, DBAs, and maintenance personnel. Mission planners will be squadron level aircrew (pilots or Naval Flight Officers (NFOs)).

(1) Mission Planning Coordinator. An additional junior officer billet will be required, as part of the CAG staff, to perform as the mission planning coordinator for deploying squadrons aboard the CV/CVN. With the introduction of the Mission Planning Local Area Network (MPLAN) on the CV/CVN's, more coordination is required between the ship and the deploying squadrons to ensure all mission planning (to include TAMPS and force level planning interface) requirements are met in a timely manner.

(2) MPLAN. An additional Radioman (RM) will be required in CVIC to support the MPLAN. With the introduction of the MPLAN aboard the carriers and eventually a total of 46 TAMPS computers in the Ready Rooms connected to CVIC via the LAN, an additional billet will be required to absorb the work load generated in coordinating and maintaining the MPLAN.

b. TSCM. The TSCM manning concept is driven by the total system requirements for effective utilization and confidence in TSCM. Functional operating requirements will be accomplished through the utilization of existing manpower. These positions include mission planners and system administrators. Mission planners will be squadron level aircrew (pilots or NFOs). All required TSCM functions will be filled by qualified personnel as additional tasking to their present duties, and are to remain within the current manning structures of recipient activities or commands.

4. TAMPS Training Concept. The TAMPS training concept is based on the precept that the users and maintainers have attained the necessary primary Navy Officer Billet Classification (NOBC), Navy Enlisted Classification (NEC), or Military Occupational Specialty (MOS) and prerequisite levels of experience in their specialty prior to receiving TAMPS training. The TAMPS training will build upon this knowledge base and provide the student with the necessary instruction to effectively operate the TAMPS hardware and software. Due to the evolutionary nature of the TAMPS program and the open architecture of the software there is a potential for new MPMs/MPFs to be added to the TAMPS. As new MPMs/MPFs are developed the developing agency will ensure the appropriate training and training material are also generated. Additionally, the developing agency will ensure that this course data is coordinated with SPAWAR San Diego,Detachment Philadelphia for distribution, prior to fleet introduction, to the impacted Fleet Replacement Squadrons (FRSs), weapon schools, and Navy and Marine Corps Intelligence Training Center (NMITC)/Sea-Based Weapons and Advanced Tactics School, Pacific (SWATSCOLPAC) for incorporation into their TAMPS training unit of instruction modules. The SA/DBA package is distributed to NMITC and SWATSCOLPAC while the full mission planning package is distributed to the weapon schools, FRSs, Marine Aviation Weapons and Tactics

Squadron One (MAWTS-1), Marine Aircraft Wings (MAWs), and Marine Aircraft Groups (MAGs). The individual communities will modify the mission planning course materials to fit their requirements and integrate the TAMPS training into their respective mission planning curricula. NSAWC is the model manager for the TAMPS functionality. NMITC is the model manager for the SA/DBA course and the maintenance course.

a. Initial Training. For each software release, SPAWAR San Diego, Detachment Philadelphia provides initial SA/DBA training to the instructors at NMITC and SWATSCOLPAC and initial mission planning training to the weapon schools instructors. For mission planning, the weapon schools then provide training to the fleet instructors at their respective FRSs and the FRSs will in turn train student pilots and NFOs.

b. Follow-on Training. Follow-on training is formal training conducted at military schools to ensure qualified operators and proper life cycle support. This is accomplished through a training methodology that tailors the courseware to the targeted student population. The ultimate goal of the TAMPS training program is to provide applicable training at each major phase of the aviation training pipeline. This will include primary pilot training and basic NFO training, FRS, and weapon school training. Currently though, only some FRS and weapon school training is available.

(1) TAMPS Mission Planner. Pilots and NFOs will be provided the necessary skills and knowledge requirements for proper operation of the TAMPS. The aircrew training is building block in nature and based on minimum terminal objectives. This is accomplished by integrating the required TAMPS information into the specific aircraft mission planning training syllabus.

(a) Basic mission planning training is conducted at the FRSs for student aircrews. All FRSs will integrate the TAMPS training into the existing type aircraft mission planning syllabus upon receipt of TAMPS systems, with no increase to the overall syllabus length. Courses will be updated for TAMPS software 6.2 upon the FRSs receipt of the appropriate hardware and software. The major objectives are to use TAMPS for basic mission planning as follows:

- Create single aircraft mission to include the Target Attack event, if applicable.
- Display chart, imagery and elevation data background.
- Display target area threats.
- Generate single aircraft kneeboard products.
- Generate applicable aircraft digital loads.

(b) Intermediate mission planner training is conducted at the weapon schools and within the squadrons. The weapons schools will integrate TAMPS training into their existing weapon system/advanced readiness program syllabi. The major objectives are to use TAMPS for intermediate mission planning as follows:

- Analyze strike mission susceptibility to target threats.
- Create strike mission package.
- Generate strike mission briefing products.
- Generate products provided by the applicable mission planning modules and digital loads.

Aircrews will attend applicable intermediate courses as part of their normal pre-deployment workups. The participating weapons schools are as follows:

- Strike Fighter Weapons School, Atlantic (SFWSLANT), NAS Cecil Field, FL
- Strike Fighter Weapons School, Pacific (SFWSPAC), NAS Lemoore, CA
- Strike Weapons and Tactics School, Atlantic (SWATSLANT), NAS Oceana, VA
- Sea Control Weapons School, Atlantic (SEACONWPNSLANT), NAS Cecil Field, FL
- Electronic Combat Weapons School (ECWS), NAS Whidbey Island, WA
- SWATSCOLPAC, NAS North Island, CA
- NSAWC, NAS Fallon, NV
- MAWTS-1, MCAS Yuma, AZ
- Mine Warfare Training Center (MINEWARTRACEN), Ingleside, TX

(c) The Marine Corps TAMPS mission planner training will be established at the MAG level to provide training for TAMPS MAG instructors. These MAG instructors will provide TAMPS mission planning training to fleet operators.

(2) System Administrator/Database Administrator. The intent of the SA/DBA course is to provide Navy IS and Marine Corps MOS 0231 personnel in-depth database and system management training to include descriptions of database files, a functional description of the database administration subprocess, and instruction in procedures for generation and update of operational and aircraft databases. The students will also be trained to oversee and coordinate the use of TAMPS equipment, loading of upgraded software, system backup procedures, and the ability to limit access through password and level of use assignment. The Marine Corps will use the Navy training at NMITC and SWATSCOLPAC. The following is the course information:

Course Title	TAMPS System Administrator
CIN	J-150-2965 (Part of J-150-0987)
Course Length	12 Days
Ready For Training (RFT) Date (6.1)	Available
Course Location	NMITC SWATSCOLPAC (Stand-alone Course)

(3) Maintenance Technician. The TAMPS DTC-II hardware maintenance course is embedded in the ET training for NEC 1654 (course J-150-2019). This training is available only at NMITC and provides maintenance technicians with the skills and knowledge required to perform both preventive and corrective maintenance on the TAMPS hardware. In addition, the maintenance technician will receive limited instruction on the operation of the software to facilitate troubleshooting the TAMPS in accordance with the established maintenance plans. In the fourth quarter of FY98 the maintenance course will change to the Enterprise 4000 and the SUN ULTRA 2 that is replacing the DTC-II aboard ship.

(a) The Marine Corps will start conducting maintenance training on the SUN ULTRA 2 for MOS 6494 during the fourth quarter of FY98 This will be accomplished by integrating the appropriate TAMPS data in the Aviation Logistics Tactical Information Systems (ALTIS) specialist course (C-150-2010) conducted at the Navy Supply Corps School, Athens, GA.

(4) An abbreviated TAMPS mission planning demonstration is incorporated into the Naval Intelligence Officer Basic Course (NIOBC), Course Identification Number (CIN) J-3A-0010. This will provide the attending students with a basic knowledge of TAMPS capabilities and data interface requirements.

(5) A four-day introduction class is embedded in the Afloat Strike Planning Support Course (STRIKE), CIN J-150-0987. This block of instruction will provide attending students with basic skills and an introduction to basic mission planning.

(6) NSAWC, NAS Fallon, NV, will conduct TAMPS training as it applies to the strike leader. The training will address mission planning system utilization and improvements, strike planning team composition, and integration of mission planning and mission preview systems. NSAWC will evaluate TAMPS training effectiveness through practical application during Air Wing deployments to NAS Fallon.

c. Cadre Training. Cadre Training will be conducted by the SPAWAR San Diego,Detachment Philadelphia Fleet Introduction Team (FIT). This training will be for personnel at activities receiving the TAMPS hardware and/or software. Formal (school house) TAMPS follow-on training, however, will be obtained by activities when notified of receiving their first TAMPS system and prior to TAMPS installation. The FIT will evaluate the TAMPS training requirements at the recipient activity and tailor the training program to meet the training requirements of that activity. Upon completion of the instruction the FIT will again evaluate the students at the recipient activity to ensure that they possess the necessary skills and knowledge to effectively operate the TAMPS hardware and software.

d. Student Profiles. The installation of the TAMPS will not change the existing qualitative manpower requirements in the recipient fleet activities.

(1) Watch Station Requirements. The display and tracking of information in relation to aircraft mission planning is currently required at all targeted TAMPS sites. TAMPS provides, organizes, and displays information already available for use by aircrew personnel.

e. Reserve Component. The current delivery schedule indicates that reserve activities will receive TAMPS work stations. All training required for effective system utilization is available for reserve personnel by attending the active duty curriculum.

5. TSCM Training Concept. The TSCM training concept is based on the precept that the users and maintainers have attained the necessary primary NOBC, NEC, or MOS and prerequisite levels of experience in their specialty prior to receiving TSCM training. The TSCM training will build upon this knowledge base and provide the student with the necessary instruction to effectively operate the TSCM hardware and software.

a. Initial Training. The initial training for TSCM consists of two parts.

(1) The first part involves mission planning training for the Battle Group staffs. This training will be initially provided to the Tactical Training Group (TACTRAGRU) staffs who will then provide the training to Battle Group Staffs. The TSCM training for Battle Group staffs will be integrated into the existing syllabus at TACTRAGRUPAC and TACTRAGRULANT. The focus of the training will be on typical force level mission planning issues such as Joint Task Force (JTF) organization and structure, the integration of the deployed

carrier Battle Group into their organization and tasking procedures from the Commander Joint Task Force (CJTF). Subsequent focus is on training the process of converting tasking from the CJTF into execution. The training to support this activity will be centered around TSCM and include the training listed under Intermediate Mission Planning Training but expanded on ATO/ACO contingency mission development and distributive/collaborative planning.

(2) The second part involves the training of the Weapon School instructors who will then provide training to the fleet instructors at the respective FRS and the FRS will in turn train student pilots and NFOs. This training progression will also be employed for future software releases.

b. Follow-on Training. Follow-on training is formal training conducted at military schools to ensure qualified operators and proper life cycle support. This is accomplished through a training methodology that tailors the courseware to the targeted student population. The ultimate goal of the TSCM training program is to provide applicable training at each major phase of the aviation training pipeline.

(1) TSCM Mission Planner. Pilots and NFOs will be provided the necessary skills and knowledge requirements for proper operation of the TSCM. The aircrew training is building block in nature and based on minimum terminal objectives. This is accomplished by integrating the required TSCM information into the specific aircraft mission planning training syllabus.

(a) Basic mission planning training is conducted at the FRSs for student aircrews. All FRSs will integrate the TSCM training into the existing type aircraft mission planning syllabus upon receipt of TSCM systems, with no increase to the overall syllabus length. The major objective for TSCM training at the FRS is to familiarize the aircrew in TSCM capabilities and operation for force level mission planning.

(b) Intermediate mission planner training is conducted at the weapon schools and within the squadrons. The weapons schools will integrate TSCM training into their existing weapon system/advanced readiness program syllabi. TSCM intermediate training will include:

TSCM Overview
Force Level Mission Planning
TSCM Human to Computer Interface
TSCM Start-up and Shut-down Procedures
TSCM Main Menu Functions
Creating a New Strike Plan
Displaying Overlays Controller
Evaluating the Strike Plan
Utilities

Aircrews will attend applicable intermediate courses as part of their normal pre-deployment workups. The participating weapons schools are as follows:

- SFWSLANT, NAS Cecil Field, FL
- SFWSPAC, NAS Lemoore, CA
- SWATSLANT, NAS Oceana, VA
- SEACONWPNSLANT, NAS Cecil Field, FL
- ECWS, NAS Whidbey Island, WA
- SWATSCOLPAC, NAS North Island, CA
- NSAWC, NAS Fallon, NV
- MAWTS-1, MCAS Yuma, AZ

(c) Advanced mission planning training will take place at NSAWC and will inforporate TSCM training in the Strike Lead Air Training Syllabus (SLATS). The TSCM syllabus will be identical to that at the weapons school, but the training will be directed to specifically addressed to mission planning system utilization and improvements, strike planning team composition, ATO utilization/generation and integration of mission planning with mission review.

(d) The Marine Corps TSCM mission planner training will be established at the MAG level to provide training for TSCM MAG instructors. These MAG instructors will establish TSCM training at the MAG level to provide TSCM mission planning training to fleet operators.

(2) System Administrator. The intent of the SA course is to provide in-depth database and system management training to include descriptions of database files, a functional description of the database administration subprocess, and instruction in procedures for generation and update of operational and aircraft databases. The students will also be trained to oversee and coordinate the use of TSCM equipment, loading of upgraded software, system backup procedures, and the ability to limit access through password and level of use assignment. The Marine Corps will use the Navy training at NMITC

(3) NSAWC, NAS Fallon, NV, will conduct TSCM training as it applies to the strike leader. The training will address mission planning system utilization and improvements, strike planning team composition, and integration of mission planning and mission preview systems. NSAWC will evaluate TSCM training effectiveness through practical application during Air Wing deployments to NAS Fallon.

I.I. ON BOARD (IN SERVICE) TRAINING. There is currently no on board training required.

I.J. LOGISTICS SUPPORT

1. Manufacturer/Contract Number. NAWC - WD Pt. Mugu is the prime 6.1 software integrator, TELOS is the prime DTC-II and ACE/VME hardware contractor, and SUN/Intergraph is the prime Enterprise 4000/SUN ULTRA 2 hardware contractor. The following are the current contract numbers:

a. 6.1 Software: AIRTASK A2332331 0548 4233

b. DTC-II Hardware: N66032-89-D-0004

c. ACE/VME Hardware: F19628-90-D-0018

d. SUN ULTRA 2 Hardware: N66032-94-D-0012

2. Program Documentation. An Integrated Logistics Support Plan (ILSP), dated 1 July 1994, has been generated to identify the logistic support elements and the manner in which support resources will be developed for the operation and maintenance of the TAMPS 6.X systems.

3. Technical Data Plan

a. TAMPS. Hardware manuals are products of commercially available documentation. Software manuals have been developed and tailored to the specific requirements of each functional position. TAMPS 6.X manuals will be available concurrent with each fleet release of the software. The user manuals are available on compact disk as an alternative to the hard copy format. Additionally, future planning indicates that the distribution of the TAMPS software user manuals will become available on-line.

b. TSCM. Hardware manuals are products of commercially available documentation. Software manuals have been developed and tailored to force level mission planning requirements. TSCM users manuals are available in hard copy format. Additionally, future planning indicates that the distribution of the TSCM Software User Manuals will become available on soft copy.

4. Test Sets, Tools, and Test Equipment. In-depth analysis of the TAMPS maintenance philosophy has resulted in the identification of test equipment requirements. The test equipment requirements identified are items carried on the individual material readiness list of the recipient activities. Therefore, the installation of TAMPS does not drive additional special tools or test equipment requirements.

5. Repair Parts. The supply support initiated for TAMPS will provide a centralized repository of TAMPS repair parts. SPAWAR San Diego, Detachment Philadelphia will provide all repair parts provisioning. Pack up kits are provided to CV/CVN and USMC forward deployed activities to ensure limited computer "down time". Shore based activities will coordinate repair parts requirements with SPAWAR San Diego, Detachment Philadelphia.

I.K. SCHEDULES

1. Schedule of Events. The TAMPS systems will be delivered to CV/CVNs, USN/USMC activities, and Naval Reserve squadrons.

a. Delivery Schedule.

(1) TAMPS. Asset managers at NAVAIRLANT, NAVAIRPAC and CMC (APW) will control the distribution of hardware assets into the fleet units. The following is the proposed TAMPS hardware procurement plan:

TAMPS SUN ULTRA 2 PROCUREMENT PLAN

	FY97	FY98	FY99	FY00	FY01	FY02
NAVAIRLANT	13	11	53	0	0	0
NAVAIRPAC	13	11	53	0	0	0
CMC	13	11	51	0	0	0

TAMPS PC PROCUREMENT PLAN

	FY97	FY98	FY99	FY00	FY01	FY02
NAVAIRLANT	0	25	125	245	76	91
NAVAIRPAC	0	25	125	245	76	91
CMC	0	100	200	236	73	81

Note: For a complete delivery schedule by total units for each squadron/activity refer to the asset managers (NAVAIRLANT, NAVAIRPAC, and CMC(APW)).

(a) All ACE/VME assets will be transferred to F/A-18 squadrons when other units receive their SUN ULTRA 2's. The F/A-18 squadrons will be using TAMPS software release 6.1 while the other type aircraft squadrons with the SUN ULTRA 2's will be using TAMPS software release 6.1.1. Upon fleet release of TAMPS software release 6.2 the F/A-18 community will upgrade to the SUN ULTRA 2.

(2) TSCM. Asset managers at NAVAIRLANT, NAVAIRPAC and CMC (APW) will control the distribution of hardware assets into the fleet units. The following is the proposed TSCM hardware procurement plan:

TSCM PROCUREMENT PLAN

	FY97	FY98	FY99	FY00	FY01	FY02
Fleet Commanders	0	0	0	0	0	5
Battle Group Commanders	0	0	0	0	0	14
Carriers	0	0	22	22	0	0
Carrier Air Wings	0	0	0	10	6	4
Tactical Support Centers	0	0	0	8	4	4
Marine Aircraft Wings	0	0	0	3	3	0
Marine Air Control Groups	0	0	0	1	2	0
Marine Aircraft Groups	0	0	0	4	5	0
Marine Expeditionary Forces	0	0	0	0	0	4
Marine Expeditionary Units	0	0	0	0	0	14
VMU (Pioneer)	0	0	0	2	2	0
LHD/LHA	0	0	0	6	8	22
Reserves						
Carriers Air Wing	0	0	0	1	1	0
Marine Aircraft Wing	0	0	0	0	0	2
Marine Air Control Group	0	0	0	0	2	0
Marine Aircraft Groups	0	0	0	0	0	4

Note: FY99 and FY00 deliveries will be UNIX based systems. FY01 and beyond deliveries will be PC based systems.

b. Time Required to Install at Operational Sites.

(1) TAMPS. The TAMPS hardware will require approximately one week for equipment installation, software loading, and system testing. On-site training will not take place though until the hardware and software have been installed and tested and prerequisite training requirements have been met.

(2) TSCM. The TSCM hardware will require approximately three days for installation and testing. On-site training will not take place until the hardware and software have been installed and tested and prerequisite training requirements have been met.

c. Technical Training Equipment (TTE) Delivery Schedule. TTE will be utilized at fleet training sites in order to fulfill follow-on training requirements.

(1) TAMPS. NMITC and SWATSCOLPAC TTE requirements are based upon one TAMPS work station per student. The following is the TTE delivery schedule:

TAMPS TTE SEAT DELIVERY

Unit	FY97 & Prior	FY98	FY99	FY00	FY01	FY02
NMITC	8	5	0	0	6	4
SFWSLANT	6	2	4	2	1	5
SFWSPAC	4	3	3	2	4	2
SWATSCOLPAC	5	5	5	0	6	3
SWATSLANT	0	2	4	2	1	5
SEACONWPNSLANT	1	1	3	2	1	5
ECWS	7	2	1	2	2	2
MAWTS-1	2	4	10	0	2	2
NSAWC	13	0	0	1	1	0
MINEWARTRACEN	1	0	0	1	1	0
VFA-106	0	2	2	2	1	5
VFA-122	0	0	0	2	2	1
VFA-125	1	2	4	2	2	2
VF-101	0	1	3	2	1	5
VAW-120	3	2	2	2	1	5
VS-41	0	1	2	3	2	2
VAQ-129	0	1	2	3	2	2
VP-30	0	0	2	4	1	5
HC-3	0	1	2	3	2	2
HS-10	1	2	2	2	2	2
HSL-40	0	1	3	2	1	5
HSL-41	0	2	2	2	2	2
HMT-204	0	4	6	0	2	2
HMT-301	0	2	6	0	2	2
HMT-302	0	4	4	0	2	2
HMT-303	0	4	4	0	2	2
VMFAT-101	3	2	6	0	2	2
VMAT-203	0	2	6	0	2	2
VMGRT-253	0	4	6	0	2	2

Note: FY 97 and prior seats may consist of DTC-II and/or ACE/VMEs. In FY98 and FY99 seat deliveries will consist of ULTRAs or PCs. In FY00 and beyond all seat deliveries will be PCs.

(2) TSCM. The following is the TTE delivery schedule:

TSCM TTE SEAT DELIVERY

Unit	FY97 & Prior	FY98	FY99	FY00	FY01	FY02
NMITC	0	0	1	1	1	0
SFWSLANT	0	0	1	1	0	0
SFWSPAC	0	0	1	1	0	0
SWATSCOLPAC	0	0	1	1	1	0
SWATSLANT	0	0	1	1	0	0
VAQ WTU	0	0	1	1	0	0
AEW WTU (PAC)	0	0	1	1	0	0
HS WTU (PAC)	0	0	1	1	0	0
HS WTU (LANT)	0	0	1	1	0	0
SEACON WTU PAC	0	0	1	1	0	0
SEACON WTU LANT	0	0	1	1	0	0
MAWTS-1	0	0	2	0	2	0
MAG Training	0	0	9	2	5	2
VFA-106	0	0	0	0	1	0
VFA-125	0	0	0	0	1	0
VF-101	0	0	0	0	1	0
VAW-120	0	0	0	0	1	0
VS-41	0	0	0	0	1	0
VAQ-129	0	0	0	0	1	0
VP-30	0	0	0	0	1	0
HC-2	0	0	0	0	1	0
HC-3	0	0	0	0	1	0
HS-10	0	0	0	0	1	0
HSL-40	0	0	0	0	0	1
HSL-41	0	0	0	0	0	1
VMFAT-101	0	0	0	0	1	0
VMAT-203	0	0	0	0	1	0
VMGRT-253	0	0	0	0	1	0
HMT-204	0	0	0	0	1	0
HMT-301	0	0	0	0	1	0
HMT-302	0	0	0	0	1	0
HMT-303	0	0	0	0	1	0

Note: FY99 and FY00 deliveries will be UNIX based systems. FY01 and beyond deliveries will be PC based systems.

I.L. GOVERNMENT FURNISHED EQUIPMENT (GFE) AND CONTRACTOR FURNISHED EQUIPMENT (CFE) TRAINING REQUIREMENTS. There are currently no GFE or CFE training requirements beyond the current TAMPS training program.

I.M. RELATED NTSPs AND OTHER APPLICABLE DOCUMENTS

NTSP/DOCUMENT TITLE	DOCUMENT/ NTSP NUMBER	DA CODE	STATUS
AH-1W Aircraft	A-50-8502D	PMA276	Proposed
C-2A (Reserve)	A-50-8308B	PMA221	Draft
C-9B/DC-9 Logistics Aircraft (Reserves)	R-50-9402	COMNAVRESFOR	Approved December 94
CH-53E Helicopter	A-50-7604F	PMA261	Draft
E-2C Aircraft	A-50-8716C	PMA231	Approved August 94
E-2C Aircraft Transition to Reserves	A-50-8715B	PMA231	Approved March 93
E-6A TACAMO Aircraft	A-50-8516D	PMA271	Approved November 94
EA-6B ICAP II Aircraft, Block 89	A-50-7904C	PMA234	Draft
EP-3E ARIES II Aircraft	A-50-8605D	PMA290	Draft
ES-3A Aircraft	A-50-8818B	PMA244	Approved March 93
F-14A/B/D Aircraft	A-50-8511A	PMA241	Approved October 93
F-18 Aircraft Weapon System	A-50-7703G	PMA265	Approved November 97

NTSP/DOCUMENT TITLE	DOCUMENT/ NTSP NUMBER	DA CODE	STATUS
H-46 Communication Navigation Control System	A-50-9409	PMA226	Draft
HH/UH-1N Aircraft	A-50-9404	PMA(F)225	Approved October 94
KC-130T Aircraft	A-50-8423	PMA200	Approved June 85
MH-53E Helicopter	A-50-8417C	PMA261	Draft
Navy Undergraduate Jet Flight Training System, T45TS	A-50-8703B	PMA273	Approved February 95
P-3C Update II.5/III and ASUW Improvement Program	A-50-8112B	PMA290	Draft
S-3B Aircraft	A-50-8310C	PMA244	Approved July 95
SH-60B LAMPS MK-III Part B, Aircraft Subsystems	A-50-7702D	PMA299	Proposed
SH-60F Carrier Inner Zone Helicopter	A-50-8508C	PMA299	Approved Sept 94
SH-60R Multi Purpose Helicopter	A-50-9403	PMA299	Proposed
V-22A Aircraft	A-50-8412D	PMA275	Draft
Afloat Planning System (APS)	A-00-9001	PMA281	Approved December 90

NTSP/DOCUMENT TITLE	DOCUMENT/ NTSP NUMBER	DA CODE	STATUS
AGM-84E SLAM	A-50-8813B	PMA258	Approved March 95
AGM-84H SLAM Expanded Response	A-50-9502	PMA258	Approved May 95
AGM-88A HARM Missile	A-50-8101B	PMA242	Draft
AN/ARC-210(V) Electronic Protection Radio	A-50-9012B	PMA209	Proposed
Joint Direct Attack Munitions (JDAM)	A-50-9104	PMA201	Draft
Joint Stand Off Weapon (JSOW)	A-50-8906	PMA201	Draft
Joint Tactical Information Distribution System (JTIDS)	E-70-8901B	PMW159	Approved July 94
JMCIS	E-70-9401A	PMW172	Approved January 96
NAVSTAR Global Positioning System (GPS)	E-70-8215F	PMW177	Approved July 95

PART II - BILLET AND PERSONNEL REQUIREMENTS

II.A. BILLET REQUIREMENTS

II.A.1.a. Operational and Fleet Support Activity Activation Schedule

DATE: April 1998

ACTIVITY/UIC	PFYs	CFY	FY99	FY00	FY01	FY02
USN						
ACDU						
Fleet Operational Units	49	12	29	68	30	0
CAG	0	0	0	10	0	0
CV/CVN	0	0	0	1	1	2
USN						
SELRES						
Fleet Operational Units	4	0	0	0	0	0
USMC						
ACDU						
Fleet Operational Units	20	4	15	34	15	0
USMC						
SMCR						
Fleet Operational Units	13	2	0	0	0	0

Note: The above delivery schedule denotes only initial TAMPS deliveries to an activity and are displayed only to identify the training requirements generated by the introduction of TAMPS.

II.A.1.b Billets Required for Operational and Fleet Support Activities

ACTIVITY/UIC	BILLETS OFF	BILLETS ENL	DSGNTR RATING	PNEC/SNEC PMOS/SMOS
USN				
Fleet TAMPS Activity	1	0	163X/1311/1321	9680
	0	1	IS	3923
CAG	1	0	13XX	
CV/CVN	0	1	RM	
USMC				
Fleet TAMPS Activity	1	0	USMC	0202
				75XX
	0	1	USMC	0231

Note: With the exception of the CAG and CV/CVN billets, the introduction of the TAMPS system does not change the existing manpower at the recipient activities. The above functions are displayed only to identify the training requirements generated by the introduction of TAMPS.

II.A.1.c. Total Billets Required for Operational and Fleet Support Activities

DSGNR RATING	PNEC/SNEC PMOS/SMOS	PFYs OFF	PFYs ENL	CFY98 OFF	CFY98 ENL	FY99 OFF	FY99 ENL	FY00 OFF	FY00 ENL	FY01 OFF	FY01 ENL	FY02 OFF	FY02 ENL
OPERATIONAL ACTIVITIES - ACDU													
OTHER													
163X/ 1311/ 1321	9680	49	0	12	0	29	0	68	0	30	0	0	0
13XX		0	0	0	0	0	0	10	0	0	0	0	0
RM		0	0	0	0	0	0	0	1	0	1	0	2
IS	3923	0	49	0	12	0	29	0	68	0	30	0	0
OPERATIONAL ACTIVITIES - SELRES													
OTHER													
163X/ 1311/ 1321	9680	4	0	0	0	0	0	0	0	0	0	0	0
IS	3923	0	4	0	0	0	0	0	0	0	0	0	0
OPERATIONAL ACTIVITIES - AD													
OTHER													
USMC	0202/ 75XX	20	0	4	0	15	0	34	0	15	0	0	0
USMC	0231	0	20	0	4	0	15	0	34	0	15	0	0
OPERATIONAL ACTIVITIES - SMCR													
OTHER													
USMC	0202/ 75XX	13	0	2	0	0	0	0	0	0	0	0	0
USMC	0231	0	13	0	2	0	0	0	0	0	0	0	0

II.A.1.c. Total Billets Required for Operational and Fleet Support Activities (Cont'd)

DSGNR RATING	PNEC/SNEC PMOS/SMOS	PFYs OFF	PFYs ENL	CFY98 OFF	CFY98 ENL	FY99 OFF	FY99 ENL	FY00 OFF	FY00 ENL	FY01 OFF	FY01 ENL	FY02 OFF	FY02 ENL
SUMMARY TOTALS													
OPERATIONAL													
	ACDU	49	49	12	12	29	29	78	69	30	31	0	2
	SELRES	4	4	0	0	0	0	0	0	0	0	0	0
	AD	20	20	4	4	15	15	34	34	15	15	0	0
	SMCR	13	13	2	2	0	0	0	0	0	0	0	0
GRAND TOTALS													
	ACDU	49	49	12	12	29	29	78	69	30	31	0	2
	SELRES	4	4	0	0	0	0	0	0	0	0	0	0
	AD	20	20	4	4	15	15	34	34	15	15	0	0
	SMCR	13	13	2	2	0	0	0	0	0	0	0	0

II.A.2.a. Operational and Fleet Support Activity Deactivation Schedule

DATE: April 1998

ACTIVITY/UIC	PFYs	CFY	FY99	FY00	FY01	FY02

The TAMPS system does not change the existing manpower at the recipient activities, therefore, no manpower will be phased out.

II.A.2.b Billets to be Deleted in Operational and Fleet Suport Activities

ACTIVITY/UIC	BILLETS OFF	BILLETS ENL	DSGNTR RATING	PNEC/SNEC PMOS/SMOS

The TAMPS system does not change the existing manpower at the recipient activities, therefore, no manpower will be phased out.

II.A.2.c. Total Billets to be Deleted in Operational and Fleet Support Activities

DSGNR RATING	PNEC/SNEC PMOS/SMOS	PFYs OFF	PFYs ENL	CFY98 OFF	CFY98 ENL	FY99 OFF	FY99 ENL	FY00 OFF	FY00 ENL	FY01 OFF	FY01 ENL	FY02 OFF	FY02 ENL

The TAMPS system does not change the existing manpower at the recipient activities, therefore, no manpower will be phased out.

II.A.3. Training Activities Instructor and Support Billet Requirements

INSTRUCTOR BILLETS

TRAINING ACTIVITY, LOCATION, UIC

NMITC
Dam Neck, VA
0387A

DSGNR RATING	PNEC/SNEC PMOS/SMOS	PFYs OFF	PFYs ENL	CFY98 OFF	CFY98 ENL	FY99 OFF	FY99 ENL	FY00 OFF	FY00 ENL	FY01 OFF	FY01 ENL	FY02 OFF	FY02 ENL
ACDU													
IS	3923	0	1	0	0	0	0	0	0	0	0	0	0

TRAINING ACTIVITY, LOCATION, UIC

SWATSCOLPAC
NAS North Island, CA
47721

DSGNR RATING	PNEC/SNEC PMOS/SMOS	PFYs OFF	PFYs ENL	CFY98 OFF	CFY98 ENL	FY99 OFF	FY99 ENL	FY00 OFF	FY00 ENL	FY01 OFF	FY01 ENL	FY02 OFF	FY02 ENL
ACDU													
IS	3923	0	1	0	0	0	0	0	0	0	0	0	0

II.A.4 Chargeable Student Billet Requirements

ACTIVITY, LOCATION, UIC	USN/ USMC	CFY98 OFF	CFY98 ENL	FY99 OFF	FY99 ENL	FY00 OFF	FY00 ENL	FY01 OFF	FY01 ENL	FY02 OFF	FY02 ENL
NMITC	USN	1	1	1	1	2	2	1	1	1	1
Dam Neck, VA	USMC	1	1	1	1	1	1	1	1	1	1
0387A											
SWATSCOLPAC	USN	1	1	1	1	2	2	1	1	1	1
NAS North Island, CA	USMC	1	1	1	1	1	1	1	1	1	1
47721											
SUMMARY TOTALS:											
	USN	2	2	2	2	4	4	2	2	2	2
	USMC	2	2	2	2	2	2	2	2	2	2
GRAND TOTAL:											
		4	4	4	4	6	6	4	4	4	4

II.A.5 Annual Incremental and Cumulative Billets

a. OFFICER - USN

DESIGNATOR	BILLET BASE	CFY98 +/-	CFY98 CUM	FY99 +/-	FY99 CUM	FY00 +/-	FY00 CUM	FY01 +/-	FY01 CUM	FY02 +/-	FY02 CUM
Operational Billets ACDU											
13XX	0	0/0		0/0		10/10		0/10		0/10	
Chargeable Student Billets ACDU											
163X/1311/1321	2	0/2		0/2		2/4		-2/2		0/2	

b. ENLISTED - USN

RTNG	PNEC/SNEC	BILLET BASE	CFY98 +/-	CFY98 CUM	FY99 +/-	FY99 CUM	FY00 +/-	FY00 CUM	FY01 +/-	FY01 CUM	FY02 +/-	FY02 CUM
Operational Billets ACDU												
RM		0	0/0		0/0		1/1		1/2		2/4	
Instructor and Support (Staff) Billets ACDU												
IS	3923	2	0/2		0/2		0/2		0/2		0/2	
Chargeable Student Billets ACDU												
IS	3923	2	0/2		0/2		2/4		-2/2		0/2	

II.A.5 Annual Incremental and Cumulative Billets (Cont'd)

c. OFFICER - USMC

DESIGNATOR	BILLET BASE	CFY98 +/-	CFY98 CUM	FY99 +/-	FY99 CUM	FY00 +/-	FY00 CUM	FY01 +/-	FY01 CUM	FY02 +/-	FY02 CUM
Chargeable Student Billets AD											
0202/75XX	2		0/2		0/2		0/2		0/2		0/2

d. ENLISTED - USMC

RTNG	PNEC/SNEC	BILLET BASE	CFY98 +/-	CFY98 CUM	FY99 +/-	FY99 CUM	FY00 +/-	FY00 CUM	FY01 +/-	FY01 CUM	FY02 +/-	FY02 CUM
Chargeable Student Billets AD												
USMC	0231	2		0/2		0/2		0/2		0/2		0/2

PART II.B. PERSONNEL REQUIREMENTS

II.B.1. Annual Training Input Requirements

CIN: J-150-2965 COURSE TITLE: TAMPS System Administrator
COURSE LENGTH: 2 Weeks SEA TOUR LENGTH: 3 Years
ATTRITION FACTOR: 0% BACKOUT FACTOR: 0.04

TRAINING ACTIVITY	SOURCE	ACDU/ TAR/ SELRES	CFY98 OFF	CFY98 ENL	FY99 OFF	FY99 ENL	FY00 OFF	FY00 ENL	FY01 OFF	FY01 ENL	FY02 OFF	FY02 ENL
NMITC	USN	ACDU	15	15	26	26	49	49	41	42	31	33
Dam Neck, VA		SELRES	1	1	1	1	1	1	1	1	1	1
0387A	USMC	AD	6	6	12	12	24	24	19	19	15	15
		SMCR	6	6	5	5	5	5	5	5	5	5
TOTALS:			28	28	44	44	79	79	66	67	52	54
ACTIVITY TOTAL:			28	28	44	44	79	79	66	67	52	54
SWATSCOLPAC												
NAS North Island, CA	USN	ACDU	14	14	25	25	48	49	41	41	31	32
47721		SELRES	1	1	1	1	1	1	1	1	1	1
	USMC	AD	6	6	12	12	23	23	19	19	14	14
		SMCR	6	6	5	5	5	5	5	5	5	5
TOTALS:			27	27	43	43	77	78	66	66	51	52
ACTIVITY TOTAL:			27	27	43	43	77	78	66	66	51	52

PART III - TRAINING REQUIREMENTS

III.A. TRAINING COURSE REQUIREMENTS

III.A.1. Initial Training Requirements

COURSE TITLE: Software Release 6.2 Mission Planning Applications Course
COURSE DEVELOPER: SPAWAR
INSTRUCTOR: SPAWAR
COURSE LENGTH: 5 Days

LOCATION, UIC	DATE BEGIN	STUDENTS OFF	ENL	CIV		ACTIVITY DESTINATION
NMITC	Dec 98	16	0	0	(Input)	Weapon School
Dam Neck, VA		0.2	0	0	(AOB)	Instructors/
0387A		0	0	0	(Chargeable)	Fleet Cadre
SWATSCOLPAC	Jan 99	10	0	0	(Input)	Weapon School
NAS North Island, CA		0.1	0	0	(AOB)	Instructors/
47721		0	0	0	(Chargeable)	Fleet Cadre

COURSE TITLE: System Administrator Course
COURSE DEVELOPER: SPAWAR
INSTRUCTOR: SPAWAR
COURSE LENGTH: 3 Weeks

LOCATION, UIC	DATE BEGIN	STUDENTS OFF	ENL	CIV		ACTIVITY DESTINATION
NMITC	Jan 99	4	4	0	(Input)	NMITC
Dam Neck, VA		0.2	0.2	0	(AOB)	Instructors/
0387A		0	0	0	(Chargeable)	Fleet Cadre
SWATSCOLPAC	Feb 99	2	3	0	(Input)	SWATSCOL
NAS North Island, CA		0.1	0.2	0	(AOB)	Instructors/
47721		0	0	0	(Chargeable)	Fleet Cadre

III.A.2. Follow-On Training

III.A.2.a. Existing Courses

TRAINING ACTIVITY: NMITC
LOCATION, UIC: Dam Neck, VA 0387A

CIN, COURSE TITLE: J-150-2965
TAMPS System Administrator

SOURCE: USN STUDENT CATEGORY: ACDU

CFY98		FY99		FY00		FY01		FY02		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
15	15	26	26	49	49	41	42	31	33	ATIR
15	15	26	26	49	49	41	42	31	33	Output
0.5	0.5	0.9	0.9	1.6	1.6	1.4	1.4	1.0	1.1	AOB
0.5	0.5	0.9	0.9	1.6	1.6	1.4	1.4	1.0	1.1	Chargeable

SOURCE: USN STUDENT CATEGORY: SELRES

CFY98		FY99		FY00		FY01		FY02		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
1	1	1	1	1	1	1	1	1	1	ATIR
1	1	1	1	1	1	1	1	1	1	Output
0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	AOB
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Chargeable

III.A.2.a. Existing Courses (Cont'd)

TRAINING ACTIVITY: NMITC
LOCATION, UIC: Dam Neck, VA 0387A

CIN, COURSE TITLE: J-150-2965
TAMPS System Administrator

SOURCE: USMC STUDENT CATEGORY: AD

CFY98		FY99		FY00		FY01		FY02		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
6	6	12	12	24	24	19	19	15	15	ATIR
6	6	12	12	24	24	19	19	15	15	Output
0.2	0.2	0.4	0.4	0.8	0.8	0.6	0.6	0.5	0.5	AOB
0.2	0.2	0.4	0.4	0.8	0.8	0.6	0.6	0.5	0.5	Chargeable

SOURCE: USMC STUDENT CATEGORY: SMCR

CFY98		FY99		FY00		FY01		FY02		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
6	6	5	5	5	5	5	5	5	5	ATIR
6	6	5	5	5	5	5	5	5	5	Output
0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	AOB
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Chargeable

III.A.2.a. Existing Courses (Cont'd)

TRAINING ACTIVITY: SWATSCOLPAC
LOCATION, UIC: NAS North Island, CA 47721

CIN, COURSE TITLE:
TAMPS System Administrator

SOURCE: USN STUDENT CATEGORY: ACDU

CFY98		FY99		FY00		FY01		FY02		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
14	14	25	25	48	49	41	41	31	32	ATIR
14	14	25	25	48	49	41	41	31	32	Output
0.5	0.5	0.8	0.8	1.6	1.6	1.4	1.4	1.0	1.1	AOB
0.5	0.5	0.8	0.8	1.6	1.6	1.4	1.4	1.0	1.1	Chargeable

SOURCE: USN STUDENT CATEGORY: SELRES

CFY98		FY99		FY00		FY01		FY02		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
1	1	1	1	1	1	1	1	1	1	ATIR
1	1	1	1	1	1	1	1	1	1	Output
0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	AOB
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Chargeable

III.A.2.a. Existing Courses (Cont'd)

TRAINING ACTIVITY: SWATSCOLPAC
LOCATION, UIC: NAS North Island, CA 47721

CIN, COURSE TITLE:
TAMPS System Administrator

SOURCE: USMC STUDENT CATEGORY: AD

CFY98		FY99		FY00		FY01		FY02		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
6	6	12	12	23	23	19	19	14	14	ATIR
6	6	12	12	23	23	19	19	14	14	Output
0.2	0.2	0.4	0.4	0.8	0.8	0.6	0.6	0.5	0.5	AOB
0.2	0.2	0.4	0.4	0.8	0.8	0.6	0.6	0.5	0.5	Chargeable

SOURCE: USMC STUDENT CATEGORY: SMCR

CFY98		FY99		FY00		FY01		FY02		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
6	6	5	5	5	5	5	5	5	5	ATIR
6	6	5	5	5	5	5	5	5	5	Output
0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	AOB
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Chargeable

PART IV - TRAINING LOGISTICS SUPPORT REQUIREMENTS

IV.A. Training Hardware

IV.A.1. TTE/GPTE/SPTE/ST/GPETE/SPETE

TRAINING ACTIVITY: SWATSLANT
LOCATION, UIC: NAS Oceana, VA 47157

CIN, COURSE TITLE: Mission Planning

ITEM NUMBER	EQUIPMENT	TYPE OR RANGE OF REPAIR PARTS	QUANT REQD	DATE REQD	GFE CFE	STATUS
TTE						
001	TAMPS ULTRA Hardware/ Software		1	FY98	GFE	
002	TAMPS PC Hardware/ Software		1	FY98	GFE	
003	TAMPS ULTRA Hardware/ Software		3	FY99	GFE	
004	TAMPS PC Hardware/ Software		1	FY99	GFE	
005	TAMPS PC Hardware/ Software		2	FY00	GFE	
006	TAMPS PC Hardware/ Software		1	FY01	GFE	
007	TAMPS PC Hardware/ Software		5	FY02	GFE	

IV.A.1. TTE/GPTE/SPTE/ST/GPETE/SPETE (Cont'd)

TRAINING ACTIVITY: SFWSLANT
LOCATION, UIC: NAS Cecil Field, FL 47084

CIN, COURSE TITLE: Mission Planning

ITEM NUMBER	EQUIPMENT	TYPE OR RANGE OF REPAIR PARTS	QUANT REQD	DATE REQD	GFE CFE	STATUS
TTE						
008	TAMPS DTC-II and/or ACE/VME Hardware/Software		6	RFT	GFE	RFT
009	TAMPS ULTRA Hardware/ Software		1	FY98	GFE	
010	TAMPS PC Hardware/ Software		1	FY98	GFE	
011	TAMPS ULTRA Hardware/ Software		3	FY99	GFE	
012	TAMPS PC Hardware/ Software		1	FY99	GFE	
013	TAMPS PC Hardware/ Software		2	FY00	GFE	
014	TAMPS PC Hardware/ Software		1	FY01	GFE	
015	TAMPS PC Hardware/ Software		5	FY02	GFE	

IV.A.1. TTE/GPTE/SPTE/ST/GPETE/SPETE (Cont'd)

TRAINING ACTIVITY: SFWSPAC
LOCATION, UIC: NAS Lemoore, CA 35185

CIN, COURSE TITLE: Mission Planning

ITEM NUMBER	EQUIPMENT	TYPE OR RANGE OF REPAIR PARTS	QUANT REQD	DATE REQD	GFE CFE	STATUS
TTE						
016	TAMPS DTC-II and/or ACE/VME Hardware/Software		4	RFT	GFE	RFT
017	TAMPS ULTRA Hardware/ Software		1	FY98	GFE	
018	TAMPS PC Hardware/ Software		2	FY98	GFE	
019	TAMPS ULTRA Hardware/ Software		3	FY99	GFE	
020	TAMPS PC Hardware/ Software		2	FY00	GFE	
021	TAMPS PC Hardware/ Software		4	FY01	GFE	
022	TAMPS PC Hardware/ Software		2	FY02	GFE	

IV.A.1. TTE/GPTE/SPTE/ST/GPETE/SPETE (Cont'd)

TRAINING ACTIVITY: SEACONWPNSLANT
LOCATION, UIC: NAS Cecil Field, FL 52955

CIN, COURSE TITLE: Mission Planning

ITEM NUMBER	EQUIPMENT	TYPE OR RANGE OF REPAIR PARTS	QUANT REQD	DATE REQD	GFE CFE	STATUS
TTE						
023	TAMPS DTC-II and/or ACE/VME Hardware/Software		1	RFT	GFE	RFT
024	TAMPS PC Hardware/ Software		1	FY98	GFE	
025	TAMPS ULTRA Hardware/ Software		2	FY99	GFE	
026	TAMPS PC Hardware/ Software		1	FY99	GFE	
027	TAMPS PC Hardware/ Software		2	FY00	GFE	
028	TAMPS PC Hardware/ Software		1	FY01	GFE	
029	TAMPS PC Hardware/ Software		5	FY02	GFE	

IV.A.1. TTE/GPTE/SPTE/ST/GPETE/SPETE (Cont'd)

TRAINING ACTIVITY: ECWS
LOCATION, UIC: NAS Whidbey Island, WA 47445

CIN, COURSE TITLE: Mission Planning

ITEM NUMBER	EQUIPMENT	TYPE OR RANGE OF REPAIR PARTS	QUANT REQD	DATE REQD	GFE CFE	STATUS
TTE						
030	TAMPS DTC-II and/or ACE/VME Hardware/Software		7	RFT	GFE	RFT
031	TAMPS PC Hardware/ Software		2	FY98	GFE	
032	TAMPS ULTRA Hardware/ Software		1	FY99	GFE	
033	TAMPS PC Hardware/ Software		2	FY00	GFE	
034	TAMPS PC Hardware/ Software		2	FY01	GFE	
035	TAMPS PC Hardware/ Software		2	FY02	GFE	

IV.A.1. TTE/GPTE/SPTE/ST/GPETE/SPETE (Cont'd)

TRAINING ACTIVITY: MAWTS-1
LOCATION, UIC: MCAS Yuma, AZ 62974

CIN, COURSE TITLE: Mission Planning

ITEM NUMBER	EQUIPMENT	TYPE OR RANGE OF REPAIR PARTS	QUANT REQD	DATE REQD	GFE CFE	STATUS
TTE						
036	TAMPS DTC-II and/or ACE/VME Hardware/Software		2	RFT	GFE	RFT
037	TAMPS ULTRA Hardware/ Software		2	FY98	GFE	
038	TAMPS PC Hardware/ Software		2	FY98	GFE	
039	TAMPS ULTRA Hardware/ Software		4	FY99	GFE	
040	TAMPS PC Hardware/ Software		6	FY99	GFE	
041	TAMPS PC Hardware/ Software		2	FY01	GFE	
042	TAMPS PC Hardware/ Software		2	FY02	GFE	

IV.A.1. TTE/GPTE/SPTE/ST/GPETE/SPETE (Cont'd)

TRAINING ACTIVITY: MINEWARTRACEN
LOCATION, UIC: Ingleside, TX 62603

CIN, COURSE TITLE: Mission Planning

ITEM NUMBER	EQUIPMENT	TYPE OR RANGE OF REPAIR PARTS	QUANT REQD	DATE REQD	GFE CFE	STATUS
TTE						
043	TAMPS DTC-II and/or ACE/VME Hardware/Software		1	RFT	GFE	RFT
044	TAMPS PC Hardware/ Software		1	FY00	GFE	
045	TAMPS PC Hardware/ Software		1	FY01	GFE	

IV.A.1. TTE/GPTE/SPTE/ST/GPETE/SPETE (Cont'd)

TRAINING ACTIVITY: SWATSCOLPAC
LOCATION, UIC: NAS North Island, CA 47721

CIN, COURSE TITLE: Mission Planning
TAMPS System Administrator

ITEM NUMBER	EQUIPMENT	TYPE OR RANGE OF REPAIR PARTS	QUANT REQD	DATE REQD	GFE CFE	STATUS
TTE						
046	TAMPS DTC-II and/or ACE/VME Hardware/Software		5	RFT	GFE	RFT
047	TAMPS ULTRA Hardware/ Software		2	FY98	GFE	
048	TAMPS PC Hardware/ Software		3	FY98	GFE	
049	TAMPS PC Hardware/ Software		5	FY99	GFE	
050	TAMPS PC Hardware/ Software		6	FY01	GFE	
051	TAMPS PC Hardware/ Software		3	FY02	GFE	

TAMPS hardware/software deliveries in FY 98 will also include an Enterprise 4000 and an ULTRA 2300. TAMPS hardware/software deliveries in FY99 will be N-PFPS systems.

IV.A.1. TTE/GPTE/SPTE/ST/GPETE/SPETE (Cont'd)

TRAINING ACTIVITY: NMITC
LOCATION, UIC: Dam Neck, VA 0387A

CIN, COURSE TITLE: TAMPS System Administrator

ITEM NUMBER	EQUIPMENT	TYPE OR RANGE OF REPAIR PARTS	QUANT REQD	DATE REQD	GFE CFE	STATUS
TTE						
052	TAMPS DTC-II and/or ACE/VME Hardware/Software		8	RFT	GFE	RFT
053	TAMPS ULTRA Hardware/ Software		2	FY98	GFE	
054	TAMPS PC Hardware/ Software		3	FY98	GFE	
055	TAMPS PC Hardware/ Software		6	FY01	GFE	
056	TAMPS PC Hardware/ Software		4	FY02	GFE	

TAMPS hardware/software deliveries in FY 98 will also include an Enterprise 4000 and an ULTRA 2300.

IV.A.2. Training Devices

DEVICE:
DESCRIPTION OF DEVICE:
MANUFACTURER:
CONTRACT NUMBER:
TEE STATUS:

TRAINING ACTIVITY LOCATION, UIC	QUANT REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED

Not Applicable

IV.B. COURSEWARE REQUIREMENTS

IV.B.1. Training Services

COURSE/TYPE OF TRAINING	SCHOOL, LOCATION, UIC	NO. OF PERSONNEL	MAN WEEKS REQUIRED	BEGIN DATE
Software Release 6.2 Mission Planning Applications Course	NMITC Dam Neck, VA 0387A	1	1	12/98
	SWATSCOLPAC NAS North Island, CA 47721	1	1	01/99
System Administrator Course	NMITC Dam Neck, VA 0387A	1	3	01/99
	SWATSCOLPAC NAS North Island, CA 47721	1	3	02/99

IV.B.2. Curricula Materials and Training Aids

TRAINING ACTIVITY: VFA-106
LOCATION, UIC: NAS Cecil Field, FL 65550

CIN, COURSE TITLE: Mission Planning

TYPES OF MATERIAL OR AID	QUANT REQD	DATE REQD	STATUS
(1) Training Course, Curriculum Outlines	1 SET	RFT	
(1) Training Course, Trainee Guide			
(1) Training Course, Lesson Plan			
(2) Soft copies of Training Materials			
(1) Index of Training Courses/Equipment/Audio Visual Aids			

Note: Instructional material for TAMPS applications will be incorporated into the type aircraft mission planning syllabus at the FRS's. Applicable instructional material for TAMPS software release 6.1 will be incorporated into the existing syllabus concurrent with the software installation.

TRAINING ACTIVITY: VFA-122
LOCATION, UIC: NAS Lemoore, CA

CIN, COURSE TITLE: Mission Planning

TYPES OF MATERIAL OR AID	QUANT REQD	DATE REQD	STATUS
(1) Training Course, Curriculum Outlines	1 SET	FY00	
(1) Training Course, Trainee Guide			
(1) Training Course, Lesson Plan			
(2) Soft copies of Training Materials			
(1) Index of Training Courses/Equipment/Audio Visual Aids			

Note: Instructional material for TAMPS applications will be incorporated into the type aircraft mission planning syllabus at the FRS's. Applicable instructional material for TAMPS software release 6.1 will be incorporated into the existing syllabus concurrent with the software installation.

IV.B.2. Curricula Materials and Training Aids (Cont'd)

TRAINING ACTIVITY: VFA-125
LOCATION, UIC: NAS Lemoore, CA 65559

CIN, COURSE TITLE: Mission Planning

TYPES OF MATERIAL OR AID	QUANT REQD	DATE REQD	STATUS
(1) Training Course, Curriculum Outlines	1 SET	RFT	
(1) Training Course, Trainee Guide			
(1) Training Course, Lesson Plan			
(2) Soft copies of Training Materials			
(1) Index of Training Courses/Equipment/Audio Visual Aids			

Note: Instructional material for TAMPS applications will be incorporated into the type aircraft mission planning syllabus at the FRS's. Applicable instructional material for TAMPS software release 6.1 will be incorporated into the existing syllabus concurrent with the software installation.

TRAINING ACTIVITY: VF-101
LOCATION, UIC: NAS Oceana, VA 65552

CIN, COURSE TITLE: Mission Planning

TYPES OF MATERIAL OR AID	QUANT REQD	DATE REQD	STATUS
(1) Training Course, Curriculum Outlines	1 SET	RFT	
(1) Training Course, Trainee Guide			
(1) Training Course, Lesson Plan			
(2) Soft copies of Training Materials			
(1) Index of Training Courses/Equipment/Audio Visual Aids			

Note: Instructional material for TAMPS applications will be incorporated into the type aircraft mission planning syllabus at the FRS's. Applicable instructional material for TAMPS software release 6.1 will be incorporated into the existing syllabus concurrent with the software installation.

IV.B.2. Curricula Materials and Training Aids (Cont'd)

TRAINING ACTIVITY: VAW-120
LOCATION, UIC: NAS Norfolk, VA 09527

CIN, COURSE TITLE: Mission Planning

TYPES OF MATERIAL OR AID	QUANT REQD	DATE REQD	STATUS
(1) Training Course, Curriculum Outlines	1 SET	RFT	
(1) Training Course, Trainee Guide			
(1) Training Course, Lesson Plan			
(2) Soft copies of Training Materials			
(1) Index of Training Courses/Equipment/Audio Visual Aids			

Note: Instructional material for TAMPS applications will be incorporated into the type aircraft mission planning syllabus at the FRS's. Applicable instructional material for TAMPS software release 6.1 will be incorporated into the existing syllabus concurrent with the software installation.

TRAINING ACTIVITY: VS-41
LOCATION, UIC: NAS North Island, CA 09298

CIN, COURSE TITLE: Mission Planning

TYPES OF MATERIAL OR AID	QUANT REQD	DATE REQD	STATUS
(1) Training Course, Curriculum Outlines	1 SET	RFT	
(1) Training Course, Trainee Guide			
(1) Training Course, Lesson Plan			
(2) Soft copies of Training Materials			
(1) Index of Training Courses/Equipment/Audio Visual Aids			

Note: Instructional material for TAMPS applications will be incorporated into the type aircraft mission planning syllabus at the FRS's. Applicable instructional material for TAMPS software release 6.1 will be incorporated into the existing syllabus concurrent with the software installation.

IV.B.2. Curricula Materials and Training Aids (Cont'd)

TRAINING ACTIVITY: VAQ-129
LOCATION, UIC: NAS Whidbey Island, WA 30694

CIN, COURSE TITLE: Mission Planning

TYPES OF MATERIAL OR AID	QUANT REQD	DATE REQD	STATUS
(1) Training Course, Curriculum Outlines	1 SET	RFT	
(1) Training Course, Trainee Guide			
(1) Training Course, Lesson Plan			
(2) Soft copies of Training Materials			
(1) Index of Training Courses/Equipment/Audio Visual Aids			

Note: Instructional material for TAMPS applications will be incorporated into the type aircraft mission planning syllabus at the FRS's. Applicable instructional material for TAMPS software release 6.1 will be incorporated into the existing syllabus concurrent with the software installation.

TRAINING ACTIVITY: VP-30
LOCATION, UIC: NAS Jacksonville, FL 09047

CIN, COURSE TITLE: Mission Planning

TYPES OF MATERIAL OR AID	QUANT REQD	DATE REQD	STATUS
(1) Training Course, Curriculum Outlines	1 SET	FY99	
(1) Training Course, Trainee Guide			
(1) Training Course, Lesson Plan			
(2) Soft copies of Training Materials			
(1) Index of Training Courses/Equipment/Audio Visual Aids			

Note: Instructional material for TAMPS applications will be incorporated into the type aircraft mission planning syllabus at the FRS's. Applicable instructional material for TAMPS software release 6.1 will be incorporated into the existing syllabus concurrent with the software installation.

IV.B.2. Curricula Materials and Training Aids (Cont'd)

TRAINING ACTIVITY: HC-3
LOCATION, UIC: NAS North Island, CA 69822

CIN, COURSE TITLE: Mission Planning

TYPES OF MATERIAL OR AID	QUANT REQD	DATE REQD	STATUS
(1) Training Course, Curriculum Outlines	1 SET	FY98	
(1) Training Course, Trainee Guide			
(1) Training Course, Lesson Plan			
(2) Soft copies of Training Materials			
(1) Index of Training Courses/Equipment/Audio Visual Aids			

Note: Instructional material for TAMPS applications will be incorporated into the type aircraft mission planning syllabus at the FRS's. Applicable instructional material for TAMPS software release 6.1 will be incorporated into the existing syllabus concurrent with the software installation.

TRAINING ACTIVITY: HS-10
LOCATION, UIC: NAS North Island, CA 09299

CIN, COURSE TITLE: Mission Planning

TYPES OF MATERIAL OR AID	QUANT REQD	DATE REQD	STATUS
(1) Training Course, Curriculum Outlines	1 SET	RFT	
(1) Training Course, Trainee Guide			
(1) Training Course, Lesson Plan			
(2) Soft copies of Training Materials			
(1) Index of Training Courses/Equipment/Audio Visual Aids			

Note: Instructional material for TAMPS applications will be incorporated into the type aircraft mission planning syllabus at the FRS's. Applicable instructional material for TAMPS software release 6.1 will be incorporated into the existing syllabus concurrent with the software installation.

IV.B.2. Curricula Materials and Training Aids (Cont'd)

TRAINING ACTIVITY: HSL-40
LOCATION, UIC: NAF Mayport, FL 53912

CIN, COURSE TITLE: Mission Planning

TYPES OF MATERIAL OR AID	QUANT REQD	DATE REQD	STATUS
(1) Training Course, Curriculum Outlines	1 SET	RFT	
(1) Training Course, Trainee Guide			
(1) Training Course, Lesson Plan			
(2) Soft copies of Training Materials			
(1) Index of Training Courses/Equipment/Audio Visual Aids			

Note: Instructional material for TAMPS applications will be incorporated into the type aircraft mission planning syllabus at the FRS's. Applicable instructional material for TAMPS software release 6.1 will be incorporated into the existing syllabus concurrent with the software installation.

TRAINING ACTIVITY: HSL-41
LOCATION, UIC: NAS North Island, CA 55138

CIN, COURSE TITLE: Mission Planning

TYPES OF MATERIAL OR AID	QUANT REQD	DATE REQD	STATUS
(1) Training Course, Curriculum Outlines	1 SET	RFT	
(1) Training Course, Trainee Guide			
(1) Training Course, Lesson Plan			
(2) Soft copies of Training Materials			
(1) Index of Training Courses/Equipment/Audio Visual Aids			

Note: Instructional material for TAMPS applications will be incorporated into the type aircraft mission planning syllabus at the FRS's. Applicable instructional material for TAMPS software release 6.1 will be incorporated into the existing syllabus concurrent with the software installation.

IV.B.2. Curricula Materials and Training Aids (Cont'd)

TRAINING ACTIVITY: HMT-204
LOCATION, UIC: MCAS New River, NC 28545

CIN, COURSE TITLE: Mission Planning

TYPES OF MATERIAL OR AID	QUANT REQD	DATE REQD	STATUS
(1) Training Course, Curriculum Outlines	1 SET	RFT	
(1) Training Course, Trainee Guide			
(1) Training Course, Lesson Plan			
(2) Soft copies of Training Materials			
(1) Index of Training Courses/Equipment/Audio Visual Aids			

Note: Instructional material for TAMPS applications will be incorporated into the type aircraft mission planning syllabus at the FRS's. Applicable instructional material for TAMPS software release 6.1 will be incorporated into the existing syllabus concurrent with the software installation.

TRAINING ACTIVITY: HMT-301
LOCATION, UIC: MCAS Kaneohe, HI 52843

CIN, COURSE TITLE: Mission Planning

TYPES OF MATERIAL OR AID	QUANT REQD	DATE REQD	STATUS
(1) Training Course, Curriculum Outlines	1 SET	FY98	
(1) Training Course, Trainee Guide			
(1) Training Course, Lesson Plan			
(2) Soft copies of Training Materials			
(1) Index of Training Courses/Equipment/Audio Visual Aids			

Note: Instructional material for TAMPS applications will be incorporated into the type aircraft mission planning syllabus at the FRS's. Applicable instructional material for TAMPS software release 6.1 will be incorporated into the existing syllabus concurrent with the software installation.

IV.B.2. Curricula Materials and Training Aids (Cont'd)

TRAINING ACTIVITY: HMT-302
LOCATION, UIC: MCAS New River, NC 28545

CIN, COURSE TITLE: Mission Planning

TYPES OF MATERIAL OR AID	QUANT REQD	DATE REQD	STATUS
(1) Training Course, Curriculum Outlines	1 SET	FY98	
(1) Training Course, Trainee Guide			
(1) Training Course, Lesson Plan			
(2) Soft copies of Training Materials			
(1) Index of Training Courses/Equipment/Audio Visual Aids			

Note: Instructional material for TAMPS applications will be incorporated into the type aircraft mission planning syllabus at the FRS's. Applicable instructional material for TAMPS software release 6.1 will be incorporated into the existing syllabus concurrent with the software installation.

TRAINING ACTIVITY: HMT-303
LOCATION, UIC: Camp Pendleton, CA 55176

CIN, COURSE TITLE: Mission Planning

TYPES OF MATERIAL OR AID	QUANT REQD	DATE REQD	STATUS
(1) Training Course, Curriculum Outlines	1 SET	FY98	
(1) Training Course, Trainee Guide			
(1) Training Course, Lesson Plan			
(2) Soft copies of Training Materials			
(1) Index of Training Courses/Equipment/Audio Visual Aids			

Note: Instructional material for TAMPS applications will be incorporated into the type aircraft mission planning syllabus at the FRS's. Applicable instructional material for TAMPS software release 6.1 will be incorporated into the existing syllabus concurrent with the software installation.

IV.B.2. Curricula Materials and Training Aids (Cont'd)

TRAINING ACTIVITY: VMFAT-101
LOCATION, UIC: NAS Miramar, CA 45526

CIN, COURSE TITLE: Mission Planning

TYPES OF MATERIAL OR AID	QUANT REQD	DATE REQD	STATUS
(1) Training Course, Curriculum Outlines	1 SET	RFT	
(1) Training Course, Trainee Guide			
(1) Training Course, Lesson Plan			
(2) Soft copies of Training Materials			
(1) Index of Training Courses/Equipment/Audio Visual Aids			

Note: Instructional material for TAMPS applications will be incorporated into the type aircraft mission planning syllabus at the FRS's. Applicable instructional material for TAMPS software release 6.1 will be incorporated into the existing syllabus concurrent with the software installation.

TRAINING ACTIVITY: VMAT-203
LOCATION, UIC: MCAS Cherry Point, NC 45483

CIN, COURSE TITLE: Mission Planning

TYPES OF MATERIAL OR AID	QUANT REQD	DATE REQD	STATUS
(1) Training Course, Curriculum Outlines	1 SET	FY98	
(1) Training Course, Trainee Guide			
(1) Training Course, Lesson Plan			
(2) Soft copies of Training Materials			
(1) Index of Training Courses/Equipment/Audio Visual Aids			

Note: Instructional material for TAMPS applications will be incorporated into the type aircraft mission planning syllabus at the FRS's. Applicable instructional material for TAMPS software release 6.1 will be incorporated into the existing syllabus concurrent with the software installation.

IV.B.2. Curricula Materials and Training Aids (Cont'd)

TRAINING ACTIVITY: VMGRT-253
LOCATION, UIC: MCAS Cherry Point, NC 28533

CIN, COURSE TITLE: Mission Planning

TYPES OF MATERIAL OR AID	QUANT REQD	DATE REQD	STATUS
(1) Training Course, Curriculum Outlines	1 SET	RFT	
(1) Training Course, Trainee Guide			
(1) Training Course, Lesson Plan			
(2) Soft copies of Training Materials			
(1) Index of Training Courses/Equipment/Audio Visual Aids			

Note: Instructional material for TAMPS applications will be incorporated into the type aircraft mission planning syllabus at the FRS's. Applicable instructional material for TAMPS software release 6.1 will be incorporated into the existing syllabus concurrent with the software installation.

TRAINING ACTIVITY: SWATSLANT
LOCATION, UIC: NAS Oceana, VA 47457

CIN, COURSE TITLE: Mission Planning

TYPES OF MATERIAL OR AID	QUANT REQD	DATE REQD	STATUS
(1) Training Course, Curriculum Outlines	1 SET	RFT	
(20) Training Course, Trainee Guide			
(3) Training Course, Lesson Plan			
(2) Soft copies of Training Materials			
(1) Index of Training Courses/Equipment/Audio Visual Aids			

Note: Instructional material for TAMPS applications will be incorporated into the type aircraft mission planning syllabus at the FRS's. Applicable instructional material for TAMPS software release 6.1 will be incorporated into the existing syllabus concurrent with the software installation.

IV.B.2. Curricula Materials and Training Aids (Cont'd)

TRAINING ACTIVITY: SFWSLANT
LOCATION, UIC: NAS Cecil Field, FL 47084

CIN, COURSE TITLE: Mission Planning

TYPES OF MATERIAL OR AID	QUANT REQD	DATE REQD	STATUS
(1) Training Course, Curriculum Outlines	1 SET	RFT	
(20) Training Course, Trainee Guide			
(3) Training Course, Lesson Plan			
(2) Soft copies of Training Materials			
(1) Index of Training Courses/Equipment/Audio Visual Aids			

Note: Instructional material for TAMPS applications will be incorporated into the type aircraft mission planning syllabus at the FRS's. Applicable instructional material for TAMPS software release 6.1 will be incorporated into the existing syllabus concurrent with the software installation.

TRAINING ACTIVITY: SFWSPAC
LOCATION, UIC: NAS Lemoore, CA 35185

CIN, COURSE TITLE: Mission Planning

TYPES OF MATERIAL OR AID	QUANT REQD	DATE REQD	STATUS
(1) Training Course, Curriculum Outlines	1 SET	RFT	
(20) Training Course, Trainee Guide			
(3) Training Course, Lesson Plan			
(2) Soft copies of Training Materials			
(1) Index of Training Courses/Equipment/Audio Visual Aids			

Note: Instructional material for TAMPS applications will be incorporated into the type aircraft mission planning syllabus at the FRS's. Applicable instructional material for TAMPS software release 6.1 will be incorporated into the existing syllabus concurrent with the software installation.

IV.B.2. Curricula Materials and Training Aids (Cont'd)

TRAINING ACTIVITY: SWATSCOLPAC
LOCATION, UIC: NAS North Island, CA 47721

CIN, COURSE TITLE: Mission Planning

TYPES OF MATERIAL OR AID	QUANT REQD	DATE REQD	STATUS
(1) Training Course, Curriculum Outlines	1 SET	RFT	
(20) Training Course, Trainee Guide			
(3) Training Course, Lesson Plan			
(2) Soft copies of Training Materials			
(1) Index of Training Courses/Equipment/Audio Visual Aids			

Note: Instructional material for TAMPS applications will be incorporated into the type aircraft mission planning syllabus at the FRS's. Applicable instructional material for TAMPS software release 6.1 will be incorporated into the existing syllabus concurrent with the software installation.

TRAINING ACTIVITY: SEACONWPNSLANT
LOCATION, UIC: NAS Cecil Field, FL 52955

CIN, COURSE TITLE: Mission Planning

TYPES OF MATERIAL OR AID	QUANT REQD	DATE REQD	STATUS
(1) Training Course, Curriculum Outlines	1 SET	RFT	
(20) Training Course, Trainee Guide			
(3) Training Course, Lesson Plan			
(2) Soft copies of Training Materials			
(1) Index of Training Courses/Equipment/Audio Visual Aids			

Note: Instructional material for TAMPS applications will be incorporated into the type aircraft mission planning syllabus at the FRS's. Applicable instructional material for TAMPS software release 6.1 will be incorporated into the existing syllabus concurrent with the software installation.

IV.B.2. Curricula Materials and Training Aids (Cont'd)

TRAINING ACTIVITY: ECWS
LOCATION, UIC: NAS Whidbey Island, WA 47445

CIN, COURSE TITLE: Mission Planning

TYPES OF MATERIAL OR AID	QUANT REQD	DATE REQD	STATUS
(1) Training Course, Curriculum Outlines	1 SET	RFT	
(20) Training Course, Trainee Guide			
(3) Training Course, Lesson Plan			
(2) Soft copies of Training Materials			
(1) Index of Training Courses/Equipment/Audio Visual Aids			

Note: Instructional material for TAMPS applications will be incorporated into the type aircraft mission planning syllabus at the FRS's. Applicable instructional material for TAMPS software release 6.1 will be incorporated into the existing syllabus concurrent with the software installation.

TRAINING ACTIVITY: MAWTS-1
LOCATION, UIC: MCAS Yuma, AZ 62974

CIN, COURSE TITLE: Mission Planning

TYPES OF MATERIAL OR AID	QUANT REQD	DATE REQD	STATUS
(1) Training Course, Curriculum Outlines	1 SET	RFT	
(20) Training Course, Trainee Guide			
(3) Training Course, Lesson Plan			
(2) Soft copies of Training Materials			
(1) Index of Training Courses/Equipment/Audio Visual Aids			

Note: Instructional material for TAMPS applications will be incorporated into the type aircraft mission planning syllabus at the FRS's. Applicable instructional material for TAMPS software release 6.1 will be incorporated into the existing syllabus concurrent with the software installation.

IV.B.2. Curricula Materials and Training Aids (Cont'd)

TRAINING ACTIVITY: MINEWARTRACEN
LOCATION, UIC: Ingleside, TX 62603

CIN, COURSE TITLE: Mission Planning

TYPES OF MATERIAL OR AID	QUANT REQD	DATE REQD	STATUS
(1) Training Course, Curriculum Outlines	1 SET	RFT	
(20) Training Course, Trainee Guide			
(3) Training Course, Lesson Plan			
(2) Soft copies of Training Materials			
(1) Index of Training Courses/Equipment/Audio Visual Aids			

Note: Instructional material for TAMPS applications will be incorporated into the type aircraft mission planning syllabus at the FRS's. Applicable instructional material for TAMPS software release 6.1 will be incorporated into the existing syllabus concurrent with the software installation.

TRAINING ACTIVITY: NMITC
LOCATION, UIC: Dam Neck, VA 0387A

CIN, COURSE TITLE: TAMPS System Administrator

TYPES OF MATERIAL OR AID	QUANT REQD	DATE REQD	STATUS
(1) Training Course, Curriculum Outlines	1 SET	RFT	
(25) Student achievement Test			
(25) Training Course, Trainee Guide			
(1) Training Course, Lesson Plan			
(2) Soft copies of Training Materials			
(1) Index of Training Courses/Equipment/Audio Visual Aids			

Note: Instructional material for TAMPS applications will be incorporated into the type aircraft mission planning syllabus at the FRS's. Applicable instructional material for TAMPS software release 6.1 will be incorporated into the existing syllabus concurrent with the software installation.

IV.B.2. Curricula Materials and Training Aids (Cont'd)

TRAINING ACTIVITY: SWATSCOLPAC
LOCATION, UIC: NAS North Island, CA 47721

CIN, COURSE TITLE: TAMPS System Administrator

TYPES OF MATERIAL OR AID	QUANT REQD	DATE REQD	STATUS
(1) Training Course, Curriculum Outlines	1 SET	RFT	
(25) Student Achievement Test			
(25) Training Course, Trainee Guide			
(1) Training Course, Lesson Plan			
(2) Soft copies of Training Materials			
(1) Index of Training Courses/Equipment/Audio Visual Aids			

Note: Instructional material for TAMPS applications will be incorporated into the type aircraft mission planning syllabus at the FRS's. Applicable instructional material for TAMPS software release 6.1 will be incorporated into the existing syllabus concurrent with the software installation.

IV.B.3 Technical Manuals

TRAINING ACTIVITY: VFA-106
LOCATION, UIC: NAS Cecil Field, FL 65550

CIN, COURSE TITLE: Mission Planning

TECHNICAL MANUAL TITLE/NUMBER	MEDIUM	QUANT REQD	DATE REQD	STATUS
Mission Planner Manual	Hard Copy	1	RFT	
System Administrator Manual	Hard Copy	1	RFT	

TRAINING ACTIVITY: VFA-122
LOCATION, UIC: NAS Lemoore, CA

CIN, COURSE TITLE: Mission Planning

TECHNICAL MANUAL TITLE/NUMBER	MEDIUM	QUANT REQD	DATE REQD	STATUS
Mission Planner Manual	Hard Copy	1	FY00	
System Administrator Manual	Hard Copy	1	FY00	

TRAINING ACTIVITY: VFA-125
LOCATION, UIC: NAS Lemoore, CA 65559

CIN, COURSE TITLE: Mission Planning

TECHNICAL MANUAL TITLE/NUMBER	MEDIUM	QUANT REQD	DATE REQD	STATUS
Mission Planner Manual	Hard Copy	1	RFT	
System Administrator Manual	Hard Copy	1	RFT	

IV.B.3 Technical Manuals (Cont'd)

TRAINING ACTIVITY: VF-101
LOCATION, UIC: NAS Oceana, VA 65552

CIN, COURSE TITLE: Mission Planning

TECHNICAL MANUAL TITLE/NUMBER	MEDIUM	QUANT REQD	DATE REQD	STATUS
Mission Planner Manual	Hard Copy	1	RFT	
System Administrator Manual	Hard Copy	1	RFT	

TRAINING ACTIVITY: VAW-120
LOCATION, UIC: NAS Norfolk, VA 09527

CIN, COURSE TITLE: Mission Planning

TECHNICAL MANUAL TITLE/NUMBER	MEDIUM	QUANT REQD	DATE REQD	STATUS
Mission Planner Manual	Hard Copy	1	RFT	
System Administrator Manual	Hard Copy	1	RFT	

TRAINING ACTIVITY: VS-41
LOCATION, UIC: NAS North Island, CA 09298

CIN, COURSE TITLE: Mission Planning

TECHNICAL MANUAL TITLE/NUMBER	MEDIUM	QUANT REQD	DATE REQD	STATUS
Mission Planner Manual	Hard Copy	1	RFT	
System Administrator Manual	Hard Copy	1	RFT	

IV.B.3 Technical Manuals (Cont'd)

TRAINING ACTIVITY: VAQ-129
LOCATION, UIC: NAS Whidbey Island, WA 30694

CIN, COURSE TITLE: Mission Planning

TECHNICAL MANUAL TITLE/NUMBER	MEDIUM	QUANT REQD	DATE REQD	STATUS
Mission Planner Manual	Hard Copy	1	RFT	
System Administrator Manual	Hard Copy	1	RFT	

TRAINING ACTIVITY: VP-30
LOCATION, UIC: NAS Jacksonville, FL 09047

CIN, COURSE TITLE: Mission Planning

TECHNICAL MANUAL TITLE/NUMBER	MEDIUM	QUANT REQD	DATE REQD	STATUS
Mission Planner Manual	Hard Copy	1	FY99	
System Administrator Manual	Hard Copy	1	FY99	

TRAINING ACTIVITY: HC-3
LOCATION, UIC: NAS North Island, CA 69822

CIN, COURSE TITLE: Mission Planning

TECHNICAL MANUAL TITLE/NUMBER	MEDIUM	QUANT REQD	DATE REQD	STATUS
Mission Planner Manual	Hard Copy	1	FY98	
System Administrator Manual	Hard Copy	1	FY98	

IV.B.3 Technical Manuals (Cont'd)

TRAINING ACTIVITY: HS-10
LOCATION, UIC: NAS North Island, CA 09299

CIN, COURSE TITLE: Mission Planning

TECHNICAL MANUAL TITLE/NUMBER	MEDIUM	QUANT REQD	DATE REQD	STATUS
Mission Planner Manual	Hard Copy	1	RFT	
System Administrator Manual	Hard Copy	1	RFT	

TRAINING ACTIVITY: HSL-40
LOCATION, UIC: NAF Mayport, FL 53912

CIN, COURSE TITLE: Mission Planning

TECHNICAL MANUAL TITLE/NUMBER	MEDIUM	QUANT REQD	DATE REQD	STATUS
Mission Planner Manual	Hard Copy	1	RFT	
System Administrator Manual	Hard Copy	1	RFT	

TRAINING ACTIVITY: HSL-41
LOCATION, UIC: NAS North Island, CA 55138

CIN, COURSE TITLE: Mission Planning

TECHNICAL MANUAL TITLE/NUMBER	MEDIUM	QUANT REQD	DATE REQD	STATUS
Mission Planner Manual	Hard Copy	1	RFT	
System Administrator Manual	Hard Copy	1	RFT	

IV.B.3 Technical Manuals (Cont'd)

TRAINING ACTIVITY: HMT-204
LOCATION, UIC: MCAS New River, NC 28545

CIN, COURSE TITLE: Mission Planning

TECHNICAL MANUAL TITLE/NUMBER	MEDIUM	QUANT REQD	DATE REQD	STATUS
Mission Planner Manual	Hard Copy	1	RFT	
System Administrator Manual	Hard Copy	1	RFT	

TRAINING ACTIVITY: HMT-301
LOCATION, UIC: MCAS Kaneoha, HI 52843

CIN, COURSE TITLE: Mission Planning

TECHNICAL MANUAL TITLE/NUMBER	MEDIUM	QUANT REQD	DATE REQD	STATUS
Mission Planner Manual	Hard Copy	1	FY98	
System Administrator Manual	Hard Copy	1	FY98	

TRAINING ACTIVITY: HMT-302
LOCATION, UIC: MCAS New River, NC 28545

CIN, COURSE TITLE: Mission Planning

TECHNICAL MANUAL TITLE/NUMBER	MEDIUM	QUANT REQD	DATE REQD	STATUS
Mission Planner Manual	Hard Copy	1	FY98	
System Administrator Manual	Hard Copy	1	FY98	

IV.B.3 Technical Manuals (Cont'd)

TRAINING ACTIVITY: HMT-303
LOCATION, UIC: Camp Pendleton, CA 55176

CIN, COURSE TITLE: Mission Planning

TECHNICAL MANUAL TITLE/NUMBER	MEDIUM	QUANT REQD	DATE REQD	STATUS
Mission Planner Manual	Hard Copy	1	FY98	
System Administrator Manual	Hard Copy	1	FY98	

TRAINING ACTIVITY: VMFAT-101
LOCATION, UIC: NAS Miramar, CA 45526

CIN, COURSE TITLE: Mission Planning

TECHNICAL MANUAL TITLE/NUMBER	MEDIUM	QUANT REQD	DATE REQD	STATUS
Mission Planner Manual	Hard Copy	1	RFT	
System Administrator Manual	Hard Copy	1	RFT	

TRAINING ACTIVITY: VMAT-203
LOCATION, UIC: MCAS Cherry Point, NC 45483

CIN, COURSE TITLE: Mission Planning

TECHNICAL MANUAL TITLE/NUMBER	MEDIUM	QUANT REQD	DATE REQD	STATUS
Mission Planner Manual	Hard Copy	1	FY98	
System Administrator Manual	Hard Copy	1	FY98	

IV.B.3 Technical Manuals (Cont'd)

TRAINING ACTIVITY: VMGRT-253
LOCATION, UIC: MCAS Cherry Point, NC 28533

CIN, COURSE TITLE: Mission Planning

TECHNICAL MANUAL TITLE/NUMBER	MEDIUM	QUANT REQD	DATE REQD	STATUS
Mission Planner Manual	Hard Copy	1	RFT	
System Administrator Manual	Hard Copy	1	RFT	

TRAINING ACTIVITY: SWATSLANT
LOCATION, UIC: NAS Oceana, VA 47157

CIN, COURSE TITLE: Mission Planning

TECHNICAL MANUAL TITLE/NUMBER	MEDIUM	QUANT REQD	DATE REQD	STATUS
Mission Planner Manual	Hard Copy	8	RFT	
System Administrator Manual	Hard Copy	2	RFT	

TRAINING ACTIVITY: SFWSLANT
LOCATION, UIC: NAS Cecil Field, FL 47084

CIN, COURSE TITLE: Mission Planning

TECHNICAL MANUAL TITLE/NUMBER	MEDIUM	QUANT REQD	DATE REQD	STATUS
Mission Planner Manual	Hard Copy	8	RFT	
System Administrator Manual	Hard Copy	2	RFT	

IV.B.3 Technical Manuals (Cont'd)

TRAINING ACTIVITY: SFWSPAC
LOCATION, UIC: NAS Lemoore, CA 35185

CIN, COURSE TITLE: Mission Planning

TECHNICAL MANUAL TITLE/NUMBER	MEDIUM	QUANT REQD	DATE REQD	STATUS
Mission Planner Manual	Hard Copy	8	RFT	
System Administrator Manual	Hard Copy	2	RFT	

TRAINING ACTIVITY: SWATSCOLPAC
LOCATION, UIC: NAS North Island, CA 47721

CIN, COURSE TITLE: Mission Planning

TECHNICAL MANUAL TITLE/NUMBER	MEDIUM	QUANT REQD	DATE REQD	STATUS
Mission Planner Manual	Hard Copy	8	RFT	

TRAINING ACTIVITY: SEACONWPNSLANT
LOCATION, UIC: NAS Cecil Field, FL 52955

CIN, COURSE TITLE: Mission Planning

TECHNICAL MANUAL TITLE/NUMBER	MEDIUM	QUANT REQD	DATE REQD	STATUS
Mission Planner Manual	Hard Copy	8	RFT	
System Administrator Manual	Hard Copy	2	RFT	

IV.B.3 Technical Manuals (Cont'd)

TRAINING ACTIVITY: ECWS
LOCATION, UIC: NAS Whidbey Island, WA 47445

CIN, COURSE TITLE: Mission Planning

TECHNICAL MANUAL TITLE/NUMBER	MEDIUM	QUANT REQD	DATE REQD	STATUS
Mission Planner Manual	Hard Copy	8	RFT	
System Administrator Manual	Hard Copy	2	RFT	

TRAINING ACTIVITY: MAWTS-1
LOCATION, UIC: MCAS Yuma, AZ 62974

CIN, COURSE TITLE: Mission Planning

TECHNICAL MANUAL TITLE/NUMBER	MEDIUM	QUANT REQD	DATE REQD	STATUS
Mission Planner Manual	Hard Copy	8	RFT	
System Administrator Manual	Hard Copy	2	RFT	

TRAINING ACTIVITY: MINEWARTRACEN
LOCATION, UIC: Ingleside, TX 62603

CIN, COURSE TITLE: Mission Planning

TECHNICAL MANUAL TITLE/NUMBER	MEDIUM	QUANT REQD	DATE REQD	STATUS
Mission Planner Manual	Hard Copy	8	RFT	
System Administrator Manual	Hard Copy	2	RFT	

IV.B.3 Technical Manuals (Cont'd)

TRAINING ACTIVITY: NMITC
LOCATION, UIC: Dam Neck, VA 0387A

CIN, COURSE TITLE: TAMPS System Administrator

TECHNICAL MANUAL TITLE/NUMBER	MEDIUM	QUANT REQD	DATE REQD	STATUS
System Administrator User's Manual	Hard Copy	10	RFT	
Mission Planner User's Manual	Hard Copy	4	FY98	

TRAINING ACTIVITY: SWATSCOLPAC
LOCATION, UIC: NAS North Island, CA 47721

CIN, COURSE TITLE: TAMPS System Administrator

TECHNICAL MANUAL TITLE/NUMBER	MEDIUM	QUANT REQD	DATE REQD	STATUS
System Administrator User's Manual	Hard Copy	10	RFT	

PART V - MPT MILESTONES

COG CODE	MPT MILESTONES	DATE	STATUS
PEO (CU)	Commence Analysis of Manpower, Personnel and Training Requirements		Complete
PMA233	Fleet Introduction of TAMPS Hosted on Microvax II		Complete
FRS/NMITC	Commence TAMPS/Microvax Follow-on Training		Complete
PMA233	Begin Fleet Introduction of TAMPS Hosted on DTC-II		Complete
FRS/Weapon School	Commence DTC-II/Software Release 5.0 Aircrew Follow-on Training		Complete
N6	Approve and Promulgate NTP		Complete
NMITC	Commence DTC-II/Software Release 5.0 System Administrator Follow-on Training		Complete
N6	Approve and Promulgate Updated NTP (Revision A)		Complete
PMA233	Begin Fleet Introduction of TAMPS Hosted on TAC-III		Complete
PMA233	Begin Fleet Introduction of TAMPS Hosted on ACE/VME		Complete
NMITC/ SWATSCOLPAC	Commence TAMPS/Software Release 6.0.3 System Administrator Follow-on Training		Complete
FRS/Weapon School	Commence TAMPS/Software Release 6.0.3 Aircrew Follow-on Training		Complete
N6	Approve and Promulgate Update NTP (Revision B)		Complete
NMITC/ SWATSCOLPAC	Commence TAMPS/Software Release 6.1 System Administrator Follow-on Training		On-Going

PART V - MPT MILESTONES
(Cont'd)

COG CODE	MPT MILESTONES	DATE	STATUS
FRS/Weapon School	Commence TAMPS/Software Release 6.1 Aircrew Follow-on Training		On-Going
PMA205	Promulgate Draft Update NTSP (Revision C) to ALCON for Review and Comment	11/98	
PMA205	Submit Proposed Update NTSP (Revision C) for OPNAV Review	1/99	
N889	Approve and Promulgate Update NTSP (Revision C)	2/99	

PART VI - DECISION ITEMS/ACTION REQUIRED

DECISION ITEM OR ACTION REQUIRED	COMMAND ACTION	DUE DATE	STATUS

No Decision Items/Actions Required are pending at this time.

PART VII - POINTS OF CONTACT

NAME/ACTIVITY/CODE	FUNCTION	TELEPHONE NUMBER DSN/COMMERCIAL
LCDR R. Rivera CNO/N62H	Resource/Program Sponsor	DSN 329-1423 Comm 703-601-1423
LCDR G. Painter CNO/N6TT1C	Assistant for Training	DSN 329-1485 Comm 703-601-1485
CDR D. Taylor CNO/N880D4/G9	Aviation Mission Planning Requirements Officer	DSN 224-2842 Comm 703-614-2842
CAPT F. Smith CNO/N889H2	Aviation Technical Training	DSN 664-7730 Comm 703-604-7730
CAPT T. Spilman PEO(T)/PMA233	TAMPS Program Manager	DSN 757-8024 Comm 301-757-8024
Mr. C. Witkowski PEO(T)/PMA2334	TAMPS Fleet Liaison	DSN 757-8014 Comm 301-757-8014
Mr. M. Mancini NAVAIRSYSCOM/ PMA205-3F	TAMPS APMTS	DSN 757-8132 Comm 301-757-8132
Mr. J. Cleer NAVAIRSYSCOM/ PMA233	TAMPS APML	DSN 757-7279 Comm 301-757-7279
Mr. D. Salmon SPAWAR Det Philadelphia	Fleet Support	DSN 442-8071 Comm 215-214-8071
Mr. D. Gleiter NAWC A/C Division	System Software Design	DSN 441-2488 Comm 215-441-2488
CAPT Mayberry NSAWC/092	TAMPS Model Manager	DSN 830-3812 Comm 702-426-3812
LCDR D. Erickson COMOPTEVFOR/521	Operational Test Coordinator	DSN 564-5088 Comm 804-444-5088

PART VII - POINTS OF CONTACT
(Cont'd)

NAME/ACTIVITY/CODE	FUNCTION	TELEPHONE NUMBER DSN/COMMERCIAL
LCDR M. Thompson COMTRALANT/N731		DSN 564-2714 Comm 804-444-2714
LT K. Rigazzi NMITC/N26		DSN 433-0170 Comm 757-433-0170